

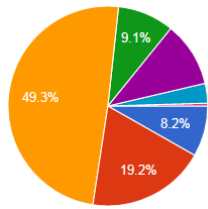
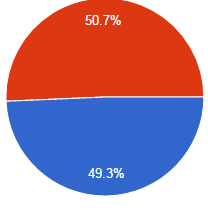
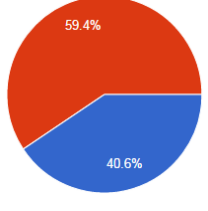
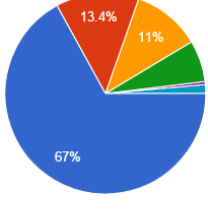
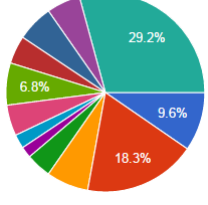
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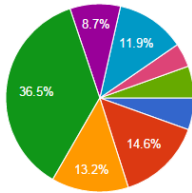
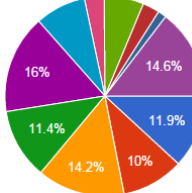
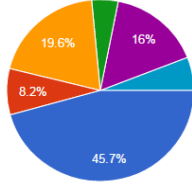
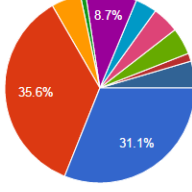
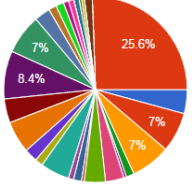
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Appendixes

Appendix A

Survey answers

<p>Age</p> 	<ul style="list-style-type: none"> ● <18 ● 19 - 25 ● 26 - 35 ● 36 - 50 ● 51 - 70 ● >70 ● Other 	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Age</th> <th>Response</th> </tr> </thead> <tbody> <tr> <td>0-25</td> <td>60</td> </tr> <tr> <td>26 - 35</td> <td>110</td> </tr> <tr> <td>36 ></td> <td>49</td> </tr> </tbody> </table>	Age	Response	0-25	60	26 - 35	110	36 >	49		
Age	Response											
0-25	60											
26 - 35	110											
36 >	49											
<p>Gender</p> 	<ul style="list-style-type: none"> ● Female ● Male 	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Gender</th> <th>Response</th> </tr> </thead> <tbody> <tr> <td>Male</td> <td>110</td> </tr> <tr> <td>Female</td> <td>110</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • No need 	Gender	Response	Male	110	Female	110				
Gender	Response											
Male	110											
Female	110											
<p>Marital status</p> 	<ul style="list-style-type: none"> ● Married ● Single 	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Status</th> <th>Response</th> </tr> </thead> <tbody> <tr> <td>Single</td> <td>132</td> </tr> <tr> <td>Married</td> <td>87</td> </tr> </tbody> </table>	Status	Response	Single	132	Married	87				
Status	Response											
Single	132											
Married	87											
<p>No of Children</p> 	<ul style="list-style-type: none"> ● 0 ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.of Children</th> <th>Response</th> </tr> </thead> <tbody> <tr> <td>No</td> <td>148</td> </tr> <tr> <td>Yes</td> <td>71</td> </tr> </tbody> </table>	No.of Children	Response	No	148	Yes	71				
No.of Children	Response											
No	148											
Yes	71											
<p>Professional</p> 	<ul style="list-style-type: none"> ● Doctor ● Engineer ● Accountant ● Lawyer ● Professor ● Lecturer ● Government servant ● Teacher ● Quantity Surveyor ● Bank staff ● House wife ● other 	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Profession</th> <th>Response</th> </tr> </thead> <tbody> <tr> <td>Engineer</td> <td>42</td> </tr> <tr> <td>Doctor</td> <td>22</td> </tr> <tr> <td>Teacher</td> <td>16</td> </tr> <tr> <td>other</td> <td>140</td> </tr> </tbody> </table>	Profession	Response	Engineer	42	Doctor	22	Teacher	16	other	140
Profession	Response											
Engineer	42											
Doctor	22											
Teacher	16											
other	140											

<p>Education</p> 	<ul style="list-style-type: none"> ● O/L ● A/L ● Diploma ● Bachelors ● Post Graduate ● Masters ● M.phill ● PHD 	<table border="1"> <thead> <tr> <th>Education</th> <th>Response</th> </tr> </thead> <tbody> <tr> <td>Diploma</td> <td>62</td> </tr> <tr> <td>Bachelors</td> <td>82</td> </tr> <tr> <td>Masters</td> <td>47</td> </tr> <tr> <td>other</td> <td>84</td> </tr> </tbody> </table>	Education	Response	Diploma	62	Bachelors	82	Masters	47	other	84				
Education	Response															
Diploma	62															
Bachelors	82															
Masters	47															
other	84															
<p>Salary Package</p> 	<ul style="list-style-type: none"> ● < 20,000 ● 20, 000 - 30,000 ● 30,000 - 45,000 ● 45,000 - 65,000 ● 65,000 - 100,000 ● 100,000 - 150,000 ● 150,000 - 2,50,000 ● 2,50,000 - 4,00,000 ● 400,000 - 6,00,000 ● >600,000 ● other 	<table border="1"> <thead> <tr> <th>Salary</th> <th>Response</th> </tr> </thead> <tbody> <tr> <td>< 20,000</td> <td>26</td> </tr> <tr> <td>20,000 - 30,000</td> <td>22</td> </tr> <tr> <td>30,000- 45,000</td> <td>30</td> </tr> <tr> <td>45,000 - 65,000</td> <td>25</td> </tr> <tr> <td>65,000 - 100,000</td> <td>35</td> </tr> <tr> <td>other</td> <td>82</td> </tr> </tbody> </table>	Salary	Response	< 20,000	26	20,000 - 30,000	22	30,000- 45,000	30	45,000 - 65,000	25	65,000 - 100,000	35	other	82
Salary	Response															
< 20,000	26															
20,000 - 30,000	22															
30,000- 45,000	30															
45,000 - 65,000	25															
65,000 - 100,000	35															
other	82															
<p>Equipment</p> 	<ul style="list-style-type: none"> ● Smart Phone ● iPad ● iPhone ● Tab ● Laptop ● other 	<table border="1"> <thead> <tr> <th>Equipment</th> <th>Response</th> </tr> </thead> <tbody> <tr> <td>Smart Phone</td> <td>143</td> </tr> <tr> <td>iPad</td> <td>35</td> </tr> <tr> <td>other</td> <td>41</td> </tr> </tbody> </table>	Equipment	Response	Smart Phone	143	iPad	35	other	41						
Equipment	Response															
Smart Phone	143															
iPad	35															
other	41															
<p>Brand</p> 	<ul style="list-style-type: none"> ● Apple ● Samsung ● HTC ● HUAWEI ● NOKIA ● MICROSOFT ● HP ● DELL ● ASSER ● other 	<table border="1"> <thead> <tr> <th>Brand</th> <th>Response</th> </tr> </thead> <tbody> <tr> <td>Apple</td> <td>48</td> </tr> <tr> <td>Samsung</td> <td>118</td> </tr> <tr> <td>other</td> <td>53</td> </tr> </tbody> </table>	Brand	Response	Apple	48	Samsung	118	other	53						
Brand	Response															
Apple	48															
Samsung	118															
other	53															
<p>Version</p> 	<ul style="list-style-type: none"> ● mini3 ● S1 ● iPhone 6s ● J7 ● mini1 ● S2 ● iPhone 7 ● S6 ● air3 ● S3 ● iPhone 6s+ ● Galaxy Grand Prime ● iPad2 ● S4 ● Option 20 ● J5 ● tab 4 ● S4 mini ● air2 ● J2 ● tab s2 ● S5 ● pro ● J1 ● tab mini ● iPhone 4s ● mini ● Galaxy S7 ● tabe ● iPhone 5s ● mini2 ● Core Prime ● other 	<table border="1"> <thead> <tr> <th>Version</th> <th>Response</th> </tr> </thead> <tbody> <tr> <td>S6</td> <td>15</td> </tr> <tr> <td>Grand prime</td> <td>15</td> </tr> <tr> <td>iPhone 6S</td> <td>18</td> </tr> <tr> <td>iPhone 7</td> <td>7</td> </tr> <tr> <td>other</td> <td>55</td> </tr> </tbody> </table>	Version	Response	S6	15	Grand prime	15	iPhone 6S	18	iPhone 7	7	other	55		
Version	Response															
S6	15															
Grand prime	15															
iPhone 6S	18															
iPhone 7	7															
other	55															

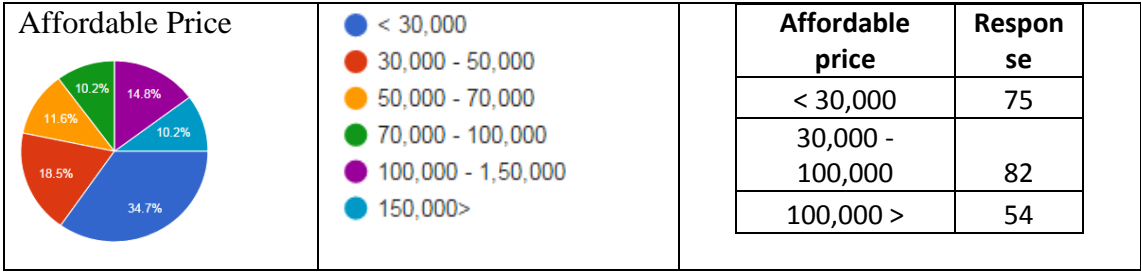


Table 2: Survey Answers

Appendix B

Final input

```

@RELATION equipment
@ATTRIBUTE Age {Youth      Middle  Elder}
@ATTRIBUTE Child {Yes      No}

@ATTRIBUTE Profession
{Doctor      Engineer  Teacher  Other}
@ATTRIBUTE Education
{Masters     Bachelors  Other}

@ATTRIBUTE Salary {Low      Middle  upperMiddle  High}
@ATTRIBUTE Brand {Apple    Samsung  Laptop    HTC}
@DATA
  
```

Middle	No	Engineer	Masters	Middle	Samsung
Middle	No	Other	Other	upperMiddle	Samsung
Middle	No	Other	Other	upperMiddle	Samsung
Middle	Yes	Other	Other	Low	Apple
Middle	Yes	Other	Other	Low	Apple
Middle	No	Other	Bachelors	upperMiddle	Apple
Middle	Yes	Other	Other	Middle	HTC
Elder	Yes	Engineer	Masters	High	Samsung
Elder	Yes	Other	Masters	High	HTC
Elder	No	Engineer	Masters	upperMiddle	Samsung
Youth	No	Other	Other	upperMiddle	Samsung
Middle	No	Other	Bachelors	Middle	Samsung
Middle	No	Other	Bachelors	Middle	Apple
Elder	Yes	Doctor	Bachelors	High	Samsung
Middle	No	Teacher	Bachelors	Low	Laptop
Youth	No	Other	Bachelors	Middle	Apple
Middle	Yes	Other	Masters	upperMiddle	Samsung
Middle	Yes	Other	Bachelors	upperMiddle	Apple
Elder	Yes	Other	Other	upperMiddle	Samsung
Youth	No	Other	Bachelors	upperMiddle	Samsung
Elder	No	Doctor	Masters	Middle	Samsung
Middle	No	Other	Bachelors	upperMiddle	Apple
Youth	No	Other	Other	upperMiddle	HTC
Youth	Yes	Other	Other	Low	Samsung
Middle	No	Other	Other	Middle	Laptop
Middle	No	Engineer	Masters	Middle	Laptop

Middle	No	Other	Other	High	Apple
Middle	No	Engineer	Masters	High	HTC
Middle	No	Other	Bachelors	upperMiddle	Laptop
Elder	Yes	Doctor	Masters	High	Apple
Elder	Yes	Other	Masters	upperMiddle	Laptop
Middle	No	Engineer	Bachelors	upperMiddle	Apple
Elder	No	Doctor	Bachelors	upperMiddle	Apple
Youth	No	Other	Bachelors	Low	Samsung
Youth	No	Engineer	Bachelors	upperMiddle	Apple
Youth	No	Other	Other	Low	HTC
Middle	No	Other	Other	Middle	Laptop
Middle	No	Other	Other	Middle	Laptop
Middle	No	Engineer	Bachelors	High	Samsung
Elder	Yes	Other	Bachelors	Middle	Apple
Elder	Yes	Other	Bachelors	High	Samsung
Elder	No	Other	Masters	High	Apple
Middle	No	Other	Bachelors	upperMiddle	Samsung
Middle	No	Other	Masters	Middle	Samsung
Middle	No	Other	Bachelors	upperMiddle	Samsung
Youth	No	Other	Other	upperMiddle	Samsung
Middle	No	Other	Bachelors	Middle	Samsung
Middle	No	Other	Bachelors	Middle	HTC
Middle	No	Other	Bachelors	High	Samsung
Youth	No	Other	Other	upperMiddle	Laptop
Youth	No	Other	Other	Low	Samsung
Youth	No	Other	Other	Low	Samsung
Middle	Yes	Other	Bachelors	Middle	Laptop
Middle	Yes	Other	Masters	Middle	Apple
Middle	No	Engineer	Masters	Middle	HTC
Middle	No	Other	Bachelors	Middle	Samsung
Elder	Yes	Other	Bachelors	Middle	Samsung
Youth	No	Other	Other	upperMiddle	Samsung
Elder	No	Engineer	Masters	Low	Apple
Middle	No	Other	Other	Middle	Laptop
Middle	Yes	Other	Bachelors	upperMiddle	Samsung
Youth	No	Other	Other	upperMiddle	Laptop
Youth	No	Teacher	Other	Low	Laptop
Elder	Yes	Other	Bachelors	Low	HTC
Middle	No	Other	Bachelors	Low	Laptop
Middle	No	Other	Masters	upperMiddle	Apple
Youth	Yes	Other	Bachelors	Low	HTC
Elder	Yes	Engineer	Masters	High	Laptop
Elder	Yes	Other	Other	Low	Samsung
Middle	No	Other	Bachelors	High	Apple

Youth	No	Engineer	Bachelors	upperMiddle	Apple
Youth	No	Other	Other	Low	Samsung
Elder	Yes	Other	Masters	High	HTC
Middle	Yes	Engineer	Bachelors	upperMiddle	Apple
Middle	No	Engineer	Masters	upperMiddle	HTC
Youth	No	Other	Other	Low	Samsung
Elder	Yes	Engineer	Masters	High	Apple
Middle	Yes	Other	Other	Middle	HTC
Youth	No	Other	Other	Low	Laptop
Elder	No	Doctor	Masters	High	HTC
Elder	Yes	Doctor	Masters	High	Laptop
Middle	Yes	Other	Bachelors	upperMiddle	Apple
Middle	No	Other	Other	Middle	Apple
Youth	No	Other	Other	upperMiddle	Laptop
Youth	No	Other	Other	upperMiddle	HTC
Youth	Yes	Other	Bachelors	Middle	Laptop
Middle	No	Engineer	Masters	Middle	Samsung
Elder	Yes	Other	Masters	High	HTC
Elder	No	Engineer	Masters	upperMiddle	Apple
Elder	Yes	Teacher	Other	Low	Laptop
Middle	Yes	Other	Bachelors	Low	Apple
Middle	Yes	Other	Masters	High	Apple
Elder	Yes	Other	Other	Middle	HTC
Middle	No	Other	Bachelors	Middle	HTC
Middle	No	Doctor	Masters	High	Apple
Middle	No	Teacher	Other	Low	Laptop
Youth	No	Other	Other	upperMiddle	HTC
Youth	No	Other	Other	Low	Apple
Middle	No	Engineer	Masters	High	HTC
Middle	No	Doctor	Bachelors	upperMiddle	Apple
Middle	No	Other	Other	Low	HTC
Youth	No	Other	Other	Low	Samsung
Youth	No	Other	Other	Low	Samsung
Youth	No	Engineer	Bachelors	High	HTC
Middle	No	Other	Other	Middle	Samsung
Middle	No	Other	Bachelors	upperMiddle	Apple
Middle	No	Teacher	Bachelors	Middle	Samsung
Middle	No	Other	Other	Middle	Samsung
Youth	No	Other	Other	upperMiddle	Apple
Youth	No	Other	Other	Low	HTC
Middle	Yes	Engineer	Masters	High	Apple
Youth	No	Other	Bachelors	upperMiddle	Samsung
Youth	No	Other	Other	upperMiddle	HTC
Elder	Yes	Other	Other	upperMiddle	HTC

Middle	No	Teacher	Bachelors	Middle	Laptop
Middle	No	Other	Masters	upperMiddle	HTC
Middle	No	Other	Bachelors	Middle	Laptop
Middle	Yes	Engineer	Masters	High	Apple
Middle	Yes	Other	Bachelors	Middle	Laptop
Middle	No	Other	Bachelors	upperMiddle	Laptop
Elder	Yes	Other	Other	upperMiddle	HTC
Middle	Yes	Other	Bachelors	Low	Samsung
Middle	Yes	Doctor	Bachelors	Middle	Laptop
Middle	No	Other	Bachelors	Middle	Samsung
Middle	No	Doctor	Bachelors	Middle	Samsung
Middle	Yes	Other	Bachelors	upperMiddle	Samsung
Youth	No	Other	Other	Low	HTC
Elder	Yes	Engineer	Masters	upperMiddle	Apple
Middle	No	Teacher	Other	Low	Samsung
Middle	No	Teacher	Other	Low	Samsung
Middle	No	Other	Other	Middle	Samsung
Middle	No	Other	Bachelors	upperMiddle	Apple
Middle	No	Doctor	Masters	High	Apple
Elder	No	Doctor	Masters	upperMiddle	Apple
Middle	No	Engineer	Masters	High	Apple
Middle	No	Engineer	Bachelors	High	Samsung
Middle	No	Engineer	Masters	upperMiddle	Apple
Middle	No	Engineer	Masters	High	Apple
Middle	No	Engineer	Masters	High	Apple
Middle	No	Engineer	Masters	High	Apple
Youth	No	Engineer	Bachelors	upperMiddle	Apple
Youth	No	Other	Masters	upperMiddle	Apple
Youth	No	Other	Other	Low	Laptop
Elder	Yes	Other	Bachelors	upperMiddle	Samsung
Middle	No	Other	Bachelors	Low	Samsung
Middle	No	Other	Bachelors	Low	Apple
Middle	No	Other	Masters	Middle	HTC
Middle	No	Teacher	Other	Low	Samsung
Middle	No	Other	Bachelors	Middle	Samsung
Middle	No	Other	Other	Low	Samsung
Middle	No	Engineer	Masters	Middle	Samsung
Youth	No	Teacher	Other	Low	Samsung
Middle	Yes	Engineer	Bachelors	upperMiddle	Samsung
Middle	No	Other	Bachelors	High	Apple
Middle	No	Other	Masters	upperMiddle	Samsung
Middle	No	Doctor	Bachelors	Middle	Samsung
Middle	Yes	Doctor	Masters	High	Apple
Youth	No	Other	Other	Low	HTC

Youth	No	Teacher	Other	Low	Samsung
Middle	Yes	Engineer	Masters	High	Apple
Middle	Yes	Other	Other	upperMiddle	Apple
Middle	No	Other	Masters	High	Apple
Middle	No	Other	Bachelors	Middle	Apple
Middle	Yes	Engineer	Bachelors	Middle	HTC
Middle	No	Other	Masters	upperMiddle	HTC
Middle	Yes	Other	Masters	Middle	Samsung
Middle	Yes	Engineer	Bachelors	upperMiddle	Laptop
Youth	Yes	Other	Other	Low	Apple
Middle	Yes	Doctor	Bachelors	upperMiddle	Apple
Middle	Yes	Other	Bachelors	Middle	Samsung
Middle	No	Engineer	Bachelors	upperMiddle	Samsung
Youth	No	Other	Other	upperMiddle	Samsung
Youth	No	Other	Other	upperMiddle	Apple
Middle	Yes	Other	Other	upperMiddle	Apple
Youth	No	Other	Other	upperMiddle	Samsung
Youth	No	Other	Other	upperMiddle	Samsung
Youth	No	Other	Other	Low	HTC
Elder	Yes	Other	Masters	High	Samsung
Youth	No	Other	Other	Middle	Laptop
Middle	No	Engineer	Bachelors	Middle	Laptop
Middle	No	Other	Bachelors	upperMiddle	Apple
Youth	No	Other	Bachelors	upperMiddle	Samsung
Youth	No	Other	Masters	Low	Apple
Elder	Yes	Doctor	Masters	High	Apple
Elder	Yes	Other	Masters	High	Apple
Elder	Yes	Doctor	Masters	High	Samsung
Elder	Yes	Engineer	Masters	High	Apple
Middle	No	Other	Other	Low	Samsung
Elder	Yes	Other	Masters	High	Samsung
Youth	No	Doctor	Bachelors	Middle	Samsung
Elder	Yes	Other	Masters	High	Samsung
Youth	No	Other	Other	Low	HTC
Youth	No	Teacher	Bachelors	Middle	HTC
Middle	No	Other	Bachelors	Middle	Samsung
Elder	Yes	Teacher	Other	Low	Laptop
Youth	No	Teacher	Other	Low	HTC
Youth	Yes	Other	Other	Low	HTC
Elder	No	Doctor	Bachelors	Middle	Samsung
Elder	Yes	Doctor	Masters	High	Samsung
Elder	Yes	Other	Bachelors	Middle	Apple
Middle	Yes	Other	Masters	High	Samsung
Elder	Yes	Engineer	Masters	High	Apple

Youth	No	Other	Bachelors	Middle	HTC
Elder	No	Doctor	Masters	High	Apple
Youth	No	Other	Other	Low	HTC
Elder	No	Other	Other	Low	Laptop
Elder	No	Teacher	Bachelors	upperMiddle	HTC
Youth	Yes	Other	Other	Low	HTC
Elder	Yes	Other	Masters	upperMiddle	HTC
Elder	Yes	Other	Masters	High	HTC
Elder	Yes	Other	Masters	High	Apple
Elder	Yes	Other	Masters	High	Samsung
Youth	No	Engineer	Bachelors	upperMiddle	Samsung
Elder	Yes	Other	Bachelors	upperMiddle	Samsung
Youth	No	Other	Other	Middle	Apple
Middle	No	Engineer	Bachelors	High	Apple
Middle	No	Engineer	Masters	Middle	Samsung
Middle	No	Other	Other	upperMiddle	Samsung
Middle	No	Other	Other	upperMiddle	Samsung
Middle	Yes	Other	Other	Low	Apple
Middle	Yes	Other	Other	Low	Apple
Middle	No	Other	Bachelors	upperMiddle	Apple
Middle	Yes	Other	Other	Middle	HTC
Elder	Yes	Engineer	Masters	High	Samsung
Elder	Yes	Other	Masters	High	HTC
Elder	No	Engineer	Masters	upperMiddle	Samsung
Youth	No	Other	Other	upperMiddle	Samsung
Middle	No	Other	Bachelors	Middle	Samsung
Middle	No	Other	Bachelors	Middle	Apple
Elder	Yes	Doctor	Bachelors	High	Samsung
Middle	No	Teacher	Bachelors	Low	Laptop
Youth	No	Other	Bachelors	Middle	Apple
Middle	Yes	Other	Masters	upperMiddle	Samsung
Middle	Yes	Other	Bachelors	upperMiddle	Apple
Elder	Yes	Other	Other	upperMiddle	Samsung
Youth	No	Other	Bachelors	upperMiddle	Samsung
Elder	No	Doctor	Masters	Middle	Samsung
Middle	No	Other	Bachelors	upperMiddle	Apple
Youth	No	Other	Other	upperMiddle	HTC
Youth	No	Other	Other	Low	Samsung
Middle	No	Other	Other	Middle	Laptop
Middle	No	Engineer	Masters	Middle	Laptop
Middle	No	Other	Other	High	Apple
Middle	No	Engineer	Masters	High	HTC
Middle	No	Other	Bachelors	upperMiddle	Laptop
Elder	Yes	Doctor	Masters	High	Apple

Elder	Yes	Other	Masters	upperMiddle	Laptop
Middle	No	Engineer	Bachelors	upperMiddle	Apple
Elder	No	Doctor	Bachelors	upperMiddle	Apple
Elder	Yes	Other	Masters	upperMiddle	Laptop

Appendix C -

J48 Results

age	children	profession	education	salary	J48 output
Youth	Yes	Doctor	Bachelors	Low	apple
Youth	Yes	Doctor	Bachelors	Middle	samsung
Youth	Yes	Doctor	Bachelors	UpperMiddle	apple
Youth	Yes	Doctor	Bachelors	High	samsung
Youth	Yes	Doctor	Masters	Low	apple
Youth	Yes	Doctor	Masters	Middle	samsung
Youth	Yes	Doctor	Masters	UpperMiddle	apple
Youth	Yes	Doctor	Masters	High	apple
Youth	Yes	Doctor	Other	Low	apple
Youth	Yes	Doctor	Other	Middle	samsung
Youth	Yes	Doctor	Other	UpperMiddle	apple
Youth	Yes	Doctor	Other	High	apple
Youth	Yes	Engineer	Bachelors	Low	apple
Youth	Yes	Engineer	Bachelors	Middle	laptop
Youth	Yes	Engineer	Bachelors	UpperMiddle	apple
Youth	Yes	Engineer	Bachelors	High	apple
Youth	Yes	Engineer	Masters	Low	apple
Youth	Yes	Engineer	Masters	Middle	samsung
Youth	Yes	Engineer	Masters	UpperMiddle	apple
Youth	Yes	Engineer	Masters	High	apple
Youth	Yes	Engineer	Other	Low	apple
Youth	Yes	Engineer	Other	Middle	samsung
Youth	Yes	Engineer	Other	UpperMiddle	apple
Youth	Yes	Engineer	Other	High	apple
Youth	Yes	Teacher	Bachelors	Low	samsung
Youth	Yes	Teacher	Bachelors	Middle	samsung
Youth	Yes	Teacher	Bachelors	UpperMiddle	samsung
Youth	Yes	Teacher	Bachelors	High	samsung
Youth	Yes	Teacher	Masters	Low	samsung
Youth	Yes	Teacher	Masters	Middle	samsung
Youth	Yes	Teacher	Masters	UpperMiddle	samsung
Youth	Yes	Teacher	Masters	High	samsung

Youth	Yes	Teacher	Other	Low	samsung
Youth	Yes	Teacher	Other	Middle	samsung
Youth	Yes	Teacher	Other	UpperMiddle	samsung
Youth	Yes	Teacher	Other	High	samsung
Youth	Yes	Other	Bachelors	Low	samsung
Youth	Yes	Other	Bachelors	Middle	apple
Youth	Yes	Other	Bachelors	UpperMiddle	samsung
Youth	Yes	Other	Bachelors	High	samsung
Youth	Yes	Other	Masters	Low	apple
Youth	Yes	Other	Masters	Middle	apple
Youth	Yes	Other	Masters	UpperMiddle	apple
Youth	Yes	Other	Masters	High	apple
Youth	Yes	Other	Other	Low	samsung
Youth	Yes	Other	Other	Middle	samsung
Youth	Yes	Other	Other	UpperMiddle	samsung
Youth	Yes	Other	Other	High	samsung
Youth	No	Doctor	Bachelors	Low	apple
Youth	No	Doctor	Bachelors	Middle	samsung
Youth	No	Doctor	Bachelors	UpperMiddle	apple
Youth	No	Doctor	Bachelors	High	samsung
Youth	No	Doctor	Masters	Low	apple
Youth	No	Doctor	Masters	Middle	samsung
Youth	No	Doctor	Masters	UpperMiddle	apple
Youth	No	Doctor	Masters	High	apple
Youth	No	Doctor	Other	Low	apple
Youth	No	Doctor	Other	Middle	samsung
Youth	No	Doctor	Other	UpperMiddle	apple
Youth	No	Doctor	Other	High	apple
Youth	No	Engineer	Bachelors	Low	apple
Youth	No	Engineer	Bachelors	Middle	laptop
Youth	No	Engineer	Bachelors	UpperMiddle	apple
Youth	No	Engineer	Bachelors	High	apple
Youth	No	Engineer	Masters	Low	apple
Youth	No	Engineer	Masters	Middle	samsung
Youth	No	Engineer	Masters	UpperMiddle	apple
Youth	No	Engineer	Masters	High	apple
Youth	No	Engineer	Other	Low	apple
Youth	No	Engineer	Other	Middle	samsung
Youth	No	Engineer	Other	UpperMiddle	apple
Youth	No	Engineer	Other	High	apple
Youth	No	Teacher	Bachelors	Low	samsung
Youth	No	Teacher	Bachelors	Middle	samsung
Youth	No	Teacher	Bachelors	UpperMiddle	samsung
Youth	No	Teacher	Bachelors	High	samsung

Youth	No	Teacher	Masters	Low	samsung
Youth	No	Teacher	Masters	Middle	samsung
Youth	No	Teacher	Masters	UpperMiddle	samsung
Youth	No	Teacher	Masters	High	samsung
Youth	No	Teacher	Other	Low	samsung
Youth	No	Teacher	Other	Middle	samsung
Youth	No	Teacher	Other	UpperMiddle	samsung
Youth	No	Teacher	Other	High	samsung
Youth	No	Other	Bachelors	Low	samsung
Youth	No	Other	Bachelors	Middle	apple
Youth	No	Other	Bachelors	UpperMiddle	samsung
Youth	No	Other	Bachelors	High	samsung
Youth	No	Other	Masters	Low	apple
Youth	No	Other	Masters	Middle	apple
Youth	No	Other	Masters	UpperMiddle	apple
Youth	No	Other	Masters	High	apple
Youth	No	Other	Other	Low	samsung
Youth	No	Other	Other	Middle	samsung
Youth	No	Other	Other	UpperMiddle	samsung
Youth	No	Other	Other	High	samsung
Middle	Yes	Doctor	Bachelors	Low	apple
Middle	Yes	Doctor	Bachelors	Middle	samsung
Middle	Yes	Doctor	Bachelors	UpperMiddle	apple
Middle	Yes	Doctor	Bachelors	High	samsung
Middle	Yes	Doctor	Masters	Low	apple
Middle	Yes	Doctor	Masters	Middle	samsung
Middle	Yes	Doctor	Masters	UpperMiddle	apple
Middle	Yes	Doctor	Masters	High	apple
Middle	Yes	Doctor	Other	Low	apple
Middle	Yes	Doctor	Other	Middle	samsung
Middle	Yes	Doctor	Other	UpperMiddle	apple
Middle	Yes	Doctor	Other	High	apple
Middle	Yes	Engineer	Bachelors	Low	apple
Middle	Yes	Engineer	Bachelors	Middle	laptop
Middle	Yes	Engineer	Bachelors	UpperMiddle	apple
Middle	Yes	Engineer	Bachelors	High	apple
Middle	Yes	Engineer	Masters	Low	apple
Middle	Yes	Engineer	Masters	Middle	samsung
Middle	Yes	Engineer	Masters	UpperMiddle	apple
Middle	Yes	Engineer	Masters	High	apple
Middle	Yes	Engineer	Other	Low	apple
Middle	Yes	Engineer	Other	Middle	samsung
Middle	Yes	Engineer	Other	UpperMiddle	apple
Middle	Yes	Engineer	Other	High	apple

Middle	Yes	Teacher	Bachelors	Low	laptop
Middle	Yes	Teacher	Bachelors	Middle	laptop
Middle	Yes	Teacher	Bachelors	UpperMiddle	laptop
Middle	Yes	Teacher	Bachelors	High	laptop
Middle	Yes	Teacher	Masters	Low	samsung
Middle	Yes	Teacher	Masters	Middle	samsung
Middle	Yes	Teacher	Masters	UpperMiddle	samsung
Middle	Yes	Teacher	Masters	High	samsung
Middle	Yes	Teacher	Other	Low	samsung
Middle	Yes	Teacher	Other	Middle	samsung
Middle	Yes	Teacher	Other	UpperMiddle	samsung
Middle	Yes	Teacher	Other	High	samsung
Middle	Yes	Other	Bachelors	Low	apple
Middle	Yes	Other	Bachelors	Middle	samsung
Middle	Yes	Other	Bachelors	UpperMiddle	apple
Middle	Yes	Other	Bachelors	High	apple
Middle	Yes	Other	Masters	Low	apple
Middle	Yes	Other	Masters	Middle	samsung
Middle	Yes	Other	Masters	UpperMiddle	samsung
Middle	Yes	Other	Masters	High	apple
Middle	Yes	Other	Other	Low	apple
Middle	Yes	Other	Other	Middle	HTC
Middle	Yes	Other	Other	UpperMiddle	apple
Middle	Yes	Other	Other	High	apple
Middle	No	Doctor	Bachelors	Low	apple
Middle	No	Doctor	Bachelors	Middle	samsung
Middle	No	Doctor	Bachelors	UpperMiddle	apple
Middle	No	Doctor	Bachelors	High	samsung
Middle	No	Doctor	Masters	Low	apple
Middle	No	Doctor	Masters	Middle	samsung
Middle	No	Doctor	Masters	UpperMiddle	apple
Middle	No	Doctor	Masters	High	apple
Middle	No	Doctor	Other	Low	apple
Middle	No	Doctor	Other	Middle	samsung
Middle	No	Doctor	Other	UpperMiddle	apple
Middle	No	Doctor	Other	High	apple
Middle	No	Engineer	Bachelors	Low	apple
Middle	No	Engineer	Bachelors	Middle	laptop
Middle	No	Engineer	Bachelors	UpperMiddle	apple
Middle	No	Engineer	Bachelors	High	apple
Middle	No	Engineer	Masters	Low	apple
Middle	No	Engineer	Masters	Middle	samsung
Middle	No	Engineer	Masters	UpperMiddle	apple
Middle	No	Engineer	Masters	High	apple

Middle	No	Engineer	Other	Low	apple
Middle	No	Engineer	Other	Middle	samsung
Middle	No	Engineer	Other	UpperMiddle	apple
Middle	No	Engineer	Other	High	apple
Middle	No	Teacher	Bachelors	Low	laptop
Middle	No	Teacher	Bachelors	Middle	laptop
Middle	No	Teacher	Bachelors	UpperMiddle	laptop
Middle	No	Teacher	Bachelors	High	laptop
Middle	No	Teacher	Masters	Low	samsung
Middle	No	Teacher	Masters	Middle	samsung
Middle	No	Teacher	Masters	UpperMiddle	samsung
Middle	No	Teacher	Masters	High	samsung
Middle	No	Teacher	Other	Low	samsung
Middle	No	Teacher	Other	Middle	samsung
Middle	No	Teacher	Other	UpperMiddle	samsung
Middle	No	Teacher	Other	High	samsung
Middle	No	Other	Bachelors	Low	samsung
Middle	No	Other	Bachelors	Middle	samsung
Middle	No	Other	Bachelors	UpperMiddle	apple
Middle	No	Other	Bachelors	High	apple
Middle	No	Other	Masters	Low	samsung
Middle	No	Other	Masters	Middle	samsung
Middle	No	Other	Masters	UpperMiddle	HTC
Middle	No	Other	Masters	High	apple
Middle	No	Other	Other	Low	samsung
Middle	No	Other	Other	Middle	laptop
Middle	No	Other	Other	UpperMiddle	samsung
Middle	No	Other	Other	High	apple
Elder	Yes	Doctor	Bachelors	Low	apple
Elder	Yes	Doctor	Bachelors	Middle	samsung
Elder	Yes	Doctor	Bachelors	UpperMiddle	apple
Elder	Yes	Doctor	Bachelors	High	samsung
Elder	Yes	Doctor	Masters	Low	apple
Elder	Yes	Doctor	Masters	Middle	samsung
Elder	Yes	Doctor	Masters	UpperMiddle	apple
Elder	Yes	Doctor	Masters	High	apple
Elder	Yes	Doctor	Other	Low	apple
Elder	Yes	Doctor	Other	Middle	samsung
Elder	Yes	Doctor	Other	UpperMiddle	apple
Elder	Yes	Doctor	Other	High	apple
Elder	Yes	Engineer	Bachelors	Low	apple
Elder	Yes	Engineer	Bachelors	Middle	laptop
Elder	Yes	Engineer	Bachelors	UpperMiddle	apple
Elder	Yes	Engineer	Bachelors	High	apple

Elder	Yes	Engineer	Masters	Low	apple
Elder	Yes	Engineer	Masters	Middle	samsung
Elder	Yes	Engineer	Masters	UpperMiddle	apple
Elder	Yes	Engineer	Masters	High	apple
Elder	Yes	Engineer	Other	Low	apple
Elder	Yes	Engineer	Other	Middle	samsung
Elder	Yes	Engineer	Other	UpperMiddle	apple
Elder	Yes	Engineer	Other	High	apple
Elder	Yes	Teacher	Bachelors	Low	laptop
Elder	Yes	Teacher	Bachelors	Middle	laptop
Elder	Yes	Teacher	Bachelors	UpperMiddle	laptop
Elder	Yes	Teacher	Bachelors	High	laptop
Elder	Yes	Teacher	Masters	Low	laptop
Elder	Yes	Teacher	Masters	Middle	laptop
Elder	Yes	Teacher	Masters	UpperMiddle	laptop
Elder	Yes	Teacher	Masters	High	laptop
Elder	Yes	Teacher	Other	Low	laptop
Elder	Yes	Teacher	Other	Middle	laptop
Elder	Yes	Teacher	Other	UpperMiddle	laptop
Elder	Yes	Teacher	Other	High	laptop
Elder	Yes	Other	Bachelors	Low	samsung
Elder	Yes	Other	Bachelors	Middle	samsung
Elder	Yes	Other	Bachelors	UpperMiddle	samsung
Elder	Yes	Other	Bachelors	High	samsung
Elder	Yes	Other	Masters	Low	samsung
Elder	Yes	Other	Masters	Middle	samsung
Elder	Yes	Other	Masters	UpperMiddle	samsung
Elder	Yes	Other	Masters	High	samsung
Elder	Yes	Other	Other	Low	samsung
Elder	Yes	Other	Other	Middle	samsung
Elder	Yes	Other	Other	UpperMiddle	samsung
Elder	Yes	Other	Other	High	samsung
Elder	No	Doctor	Bachelors	Low	apple
Elder	No	Doctor	Bachelors	Middle	samsung
Elder	No	Doctor	Bachelors	UpperMiddle	apple
Elder	No	Doctor	Bachelors	High	samsung
Elder	No	Doctor	Masters	Low	apple
Elder	No	Doctor	Masters	Middle	samsung
Elder	No	Doctor	Masters	UpperMiddle	apple
Elder	No	Doctor	Masters	High	apple
Elder	No	Doctor	Other	Low	apple
Elder	No	Doctor	Other	Middle	samsung
Elder	No	Doctor	Other	UpperMiddle	apple
Elder	No	Doctor	Other	High	apple

Elder	No	Engineer	Bachelors	Low	apple
Elder	No	Engineer	Bachelors	Middle	laptop
Elder	No	Engineer	Bachelors	UpperMiddle	apple
Elder	No	Engineer	Bachelors	High	apple
Elder	No	Engineer	Masters	Low	apple
Elder	No	Engineer	Masters	Middle	samsung
Elder	No	Engineer	Masters	UpperMiddle	apple
Elder	No	Engineer	Masters	High	apple
Elder	No	Engineer	Other	Low	apple
Elder	No	Engineer	Other	Middle	samsung
Elder	No	Engineer	Other	UpperMiddle	apple
Elder	No	Engineer	Other	High	apple
Elder	No	Teacher	Bachelors	Low	laptop
Elder	No	Teacher	Bachelors	Middle	laptop
Elder	No	Teacher	Bachelors	UpperMiddle	laptop
Elder	No	Teacher	Bachelors	High	laptop
Elder	No	Teacher	Masters	Low	laptop
Elder	No	Teacher	Masters	Middle	laptop
Elder	No	Teacher	Masters	UpperMiddle	laptop
Elder	No	Teacher	Masters	High	laptop
Elder	No	Teacher	Other	Low	laptop
Elder	No	Teacher	Other	Middle	laptop
Elder	No	Teacher	Other	UpperMiddle	laptop
Elder	No	Teacher	Other	High	laptop
Elder	No	Other	Bachelors	Low	samsung
Elder	No	Other	Bachelors	Middle	samsung
Elder	No	Other	Bachelors	UpperMiddle	samsung
Elder	No	Other	Bachelors	High	samsung
Elder	No	Other	Masters	Low	samsung
Elder	No	Other	Masters	Middle	samsung
Elder	No	Other	Masters	UpperMiddle	samsung
Elder	No	Other	Masters	High	samsung
Elder	No	Other	Other	Low	samsung
Elder	No	Other	Other	Middle	samsung
Elder	No	Other	Other	UpperMiddle	samsung
Elder	No	Other	Other	High	samsung

Naïve Bays Result

					Naïve Bayes Output
age	children	profession	education	salary	
Youth	Yes	Doctor	Bachelors	Low	apple
Youth	Yes	Doctor	Bachelors	Middle	apple
Youth	Yes	Doctor	Bachelors	UpperMiddle	apple

Youth	Yes	Doctor	Bachelors	High	apple
Youth	Yes	Doctor	Masters	Low	apple
Youth	Yes	Doctor	Masters	Middle	apple
Youth	Yes	Doctor	Masters	UpperMiddle	apple
Youth	Yes	Doctor	Masters	High	apple
Youth	Yes	Doctor	Other	Low	apple
Youth	Yes	Doctor	Other	Middle	apple
Youth	Yes	Doctor	Other	UpperMiddle	apple
Youth	Yes	Doctor	Other	High	apple
Youth	Yes	Engineer	Bachelors	Low	samsung
Youth	Yes	Engineer	Bachelors	Middle	samsung
Youth	Yes	Engineer	Bachelors	UpperMiddle	samsung
Youth	Yes	Engineer	Bachelors	High	samsung
Youth	Yes	Engineer	Masters	Low	apple
Youth	Yes	Engineer	Masters	Middle	apple
Youth	Yes	Engineer	Masters	UpperMiddle	apple
Youth	Yes	Engineer	Masters	High	apple
Youth	Yes	Engineer	Other	Low	samsung
Youth	Yes	Engineer	Other	Middle	samsung
Youth	Yes	Engineer	Other	UpperMiddle	samsung
Youth	Yes	Engineer	Other	High	samsung
Youth	Yes	Teacher	Bachelors	Low	samsung
Youth	Yes	Teacher	Bachelors	Middle	samsung
Youth	Yes	Teacher	Bachelors	UpperMiddle	samsung
Youth	Yes	Teacher	Bachelors	High	samsung
Youth	Yes	Teacher	Masters	Low	apple
Youth	Yes	Teacher	Masters	Middle	apple
Youth	Yes	Teacher	Masters	UpperMiddle	apple
Youth	Yes	Teacher	Masters	High	apple
Youth	Yes	Teacher	Other	Low	samsung
Youth	Yes	Teacher	Other	Middle	samsung
Youth	Yes	Teacher	Other	UpperMiddle	samsung
Youth	Yes	Teacher	Other	High	samsung
Youth	Yes	Other	Bachelors	Low	samsung
Youth	Yes	Other	Bachelors	Middle	samsung
Youth	Yes	Other	Bachelors	UpperMiddle	samsung
Youth	Yes	Other	Bachelors	High	samsung
Youth	Yes	Other	Masters	Low	apple
Youth	Yes	Other	Masters	Middle	apple
Youth	Yes	Other	Masters	UpperMiddle	apple
Youth	Yes	Other	Masters	High	apple
Youth	Yes	Other	Other	Low	apple
Youth	Yes	Other	Other	Middle	apple
Youth	Yes	Other	Other	UpperMiddle	apple

Youth	Yes	Other	Other	High	apple
Youth	No	Doctor	Bachelors	Low	apple
Youth	No	Doctor	Bachelors	Middle	apple
Youth	No	Doctor	Bachelors	UpperMiddle	apple
Youth	No	Doctor	Bachelors	High	apple
Youth	No	Doctor	Masters	Low	apple
Youth	No	Doctor	Masters	Middle	apple
Youth	No	Doctor	Masters	UpperMiddle	apple
Youth	No	Doctor	Masters	High	apple
Youth	No	Doctor	Other	Low	apple
Youth	No	Doctor	Other	Middle	apple
Youth	No	Doctor	Other	UpperMiddle	apple
Youth	No	Doctor	Other	High	apple
Youth	No	Engineer	Bachelors	Low	apple
Youth	No	Engineer	Bachelors	Middle	apple
Youth	No	Engineer	Bachelors	UpperMiddle	apple
Youth	No	Engineer	Bachelors	High	apple
Youth	No	Engineer	Masters	Low	apple
Youth	No	Engineer	Masters	Middle	apple
Youth	No	Engineer	Masters	UpperMiddle	apple
Youth	No	Engineer	Masters	High	apple
Youth	No	Engineer	Other	Low	apple
Youth	No	Engineer	Other	Middle	apple
Youth	No	Engineer	Other	UpperMiddle	apple
Youth	No	Engineer	Other	High	apple
Youth	No	Teacher	Bachelors	Low	samsung
Youth	No	Teacher	Bachelors	Middle	samsung
Youth	No	Teacher	Bachelors	UpperMiddle	samsung
Youth	No	Teacher	Bachelors	High	samsung
Youth	No	Teacher	Masters	Low	
Youth	No	Teacher	Masters	Middle	
Youth	No	Teacher	Masters	UpperMiddle	
Youth	No	Teacher	Masters	High	
Youth	No	Teacher	Other	Low	samsung
Youth	No	Teacher	Other	Middle	samsung
Youth	No	Teacher	Other	UpperMiddle	samsung
Youth	No	Teacher	Other	High	samsung
Youth	No	Other	Bachelors	Low	samsung
Youth	No	Other	Bachelors	Middle	samsung
Youth	No	Other	Bachelors	UpperMiddle	samsung
Youth	No	Other	Bachelors	High	samsung
Youth	No	Other	Masters	Low	
Youth	No	Other	Masters	Middle	
Youth	No	Other	Masters	UpperMiddle	

Youth	No	Other	Masters	High	
Youth	No	Other	Other	Low	samsung
Youth	No	Other	Other	Middle	samsung
Youth	No	Other	Other	UpperMiddle	samsung
Youth	No	Other	Other	High	samsung
Middle	Yes	Doctor	Bachelors	Low	apple
Middle	Yes	Doctor	Bachelors	Middle	apple
Middle	Yes	Doctor	Bachelors	UpperMiddle	apple
Middle	Yes	Doctor	Bachelors	High	apple
Middle	Yes	Doctor	Masters	Low	apple
Middle	Yes	Doctor	Masters	Middle	apple
Middle	Yes	Doctor	Masters	UpperMiddle	apple
Middle	Yes	Doctor	Masters	High	apple
Middle	Yes	Doctor	Other	Low	apple
Middle	Yes	Doctor	Other	Middle	apple
Middle	Yes	Doctor	Other	UpperMiddle	apple
Middle	Yes	Doctor	Other	High	apple
Middle	Yes	Engineer	Bachelors	Low	apple
Middle	Yes	Engineer	Bachelors	Middle	apple
Middle	Yes	Engineer	Bachelors	UpperMiddle	apple
Middle	Yes	Engineer	Bachelors	High	apple
Middle	Yes	Engineer	Masters	Low	apple
Middle	Yes	Engineer	Masters	Middle	apple
Middle	Yes	Engineer	Masters	UpperMiddle	apple
Middle	Yes	Engineer	Masters	High	apple
Middle	Yes	Engineer	Other	Low	apple
Middle	Yes	Engineer	Other	Middle	apple
Middle	Yes	Engineer	Other	UpperMiddle	apple
Middle	Yes	Engineer	Other	High	apple
Middle	Yes	Teacher	Bachelors	Low	apple
Middle	Yes	Teacher	Bachelors	Middle	apple
Middle	Yes	Teacher	Bachelors	UpperMiddle	apple
Middle	Yes	Teacher	Bachelors	High	apple
Middle	Yes	Teacher	Masters	Low	apple
Middle	Yes	Teacher	Masters	Middle	apple
Middle	Yes	Teacher	Masters	UpperMiddle	apple
Middle	Yes	Teacher	Masters	High	apple
Middle	Yes	Teacher	Other	Low	apple
Middle	Yes	Teacher	Other	Middle	apple
Middle	Yes	Teacher	Other	UpperMiddle	apple
Middle	Yes	Teacher	Other	High	apple
Middle	Yes	Other	Bachelors	Low	samsung
Middle	Yes	Other	Bachelors	Middle	apple
Middle	Yes	Other	Bachelors	UpperMiddle	samsung

Middle	Yes	Other	Bachelors	High	samsung
Middle	Yes	Other	Masters	Low	apple
Middle	Yes	Other	Masters	Middle	apple
Middle	Yes	Other	Masters	UpperMiddle	apple
Middle	Yes	Other	Masters	High	apple
Middle	Yes	Other	Other	Low	samsung
Middle	Yes	Other	Other	Middle	samsung
Middle	Yes	Other	Other	UpperMiddle	samsung
Middle	Yes	Other	Other	High	samsung
Middle	No	Doctor	Bachelors	Low	apple
Middle	No	Doctor	Bachelors	Middle	apple
Middle	No	Doctor	Bachelors	UpperMiddle	apple
Middle	No	Doctor	Bachelors	High	apple
Middle	No	Doctor	Masters	Low	apple
Middle	No	Doctor	Masters	Middle	apple
Middle	No	Doctor	Masters	UpperMiddle	apple
Middle	No	Doctor	Masters	High	apple
Middle	No	Doctor	Other	Low	apple
Middle	No	Doctor	Other	Middle	apple
Middle	No	Doctor	Other	UpperMiddle	apple
Middle	No	Doctor	Other	High	apple
Middle	No	Engineer	Bachelors	Low	samsung
Middle	No	Engineer	Bachelors	Middle	samsung
Middle	No	Engineer	Bachelors	UpperMiddle	samsung
Middle	No	Engineer	Bachelors	High	samsung
Middle	No	Engineer	Masters	Low	samsung
Middle	No	Engineer	Masters	Middle	samsung
Middle	No	Engineer	Masters	UpperMiddle	samsung
Middle	No	Engineer	Masters	High	apple
Middle	No	Engineer	Other	Low	samsung
Middle	No	Engineer	Other	Middle	samsung
Middle	No	Engineer	Other	UpperMiddle	samsung
Middle	No	Engineer	Other	High	samsung
Middle	No	Teacher	Bachelors	Low	samsung
Middle	No	Teacher	Bachelors	Middle	samsung
Middle	No	Teacher	Bachelors	UpperMiddle	samsung
Middle	No	Teacher	Bachelors	High	apple
Middle	No	Teacher	Masters	Low	apple
Middle	No	Teacher	Masters	Middle	apple
Middle	No	Teacher	Masters	UpperMiddle	apple
Middle	No	Teacher	Masters	High	apple
Middle	No	Teacher	Other	Low	apple
Middle	No	Teacher	Other	Middle	apple
Middle	No	Teacher	Other	UpperMiddle	apple

Middle	No	Teacher	Other	High	apple
Middle	No	Other	Bachelors	Low	apple
Middle	No	Other	Bachelors	Middle	apple
Middle	No	Other	Bachelors	UpperMiddle	samsung
Middle	No	Other	Bachelors	High	samsung
Middle	No	Other	Masters	Low	samsung
Middle	No	Other	Masters	Middle	samsung
Middle	No	Other	Masters	UpperMiddle	samsung
Middle	No	Other	Masters	High	samsung
Middle	No	Other	Other	Low	samsung
Middle	No	Other	Other	Middle	samsung
Middle	No	Other	Other	UpperMiddle	samsung
Middle	No	Other	Other	High	samsung
Elder	Yes	Doctor	Bachelors	Low	apple
Elder	Yes	Doctor	Bachelors	Middle	apple
Elder	Yes	Doctor	Bachelors	UpperMiddle	apple
Elder	Yes	Doctor	Bachelors	High	apple
Elder	Yes	Doctor	Masters	Low	apple
Elder	Yes	Doctor	Masters	Middle	apple
Elder	Yes	Doctor	Masters	UpperMiddle	apple
Elder	Yes	Doctor	Masters	High	apple
Elder	Yes	Doctor	Other	Low	apple
Elder	Yes	Doctor	Other	Middle	apple
Elder	Yes	Doctor	Other	UpperMiddle	apple
Elder	Yes	Doctor	Other	High	apple
Elder	Yes	Engineer	Bachelors	Low	samsung
Elder	Yes	Engineer	Bachelors	Middle	samsung
Elder	Yes	Engineer	Bachelors	UpperMiddle	samsung
Elder	Yes	Engineer	Bachelors	High	samsung
Elder	Yes	Engineer	Masters	Low	apple
Elder	Yes	Engineer	Masters	Middle	apple
Elder	Yes	Engineer	Masters	UpperMiddle	apple
Elder	Yes	Engineer	Masters	High	apple
Elder	Yes	Engineer	Other	Low	apple
Elder	Yes	Engineer	Other	Middle	apple
Elder	Yes	Engineer	Other	UpperMiddle	apple
Elder	Yes	Engineer	Other	High	apple
Elder	Yes	Teacher	Bachelors	Low	apple
Elder	Yes	Teacher	Bachelors	Middle	apple
Elder	Yes	Teacher	Bachelors	UpperMiddle	apple
Elder	Yes	Teacher	Bachelors	High	apple
Elder	Yes	Teacher	Masters	Low	samsung
Elder	Yes	Teacher	Masters	Middle	samsung
Elder	Yes	Teacher	Masters	UpperMiddle	samsung

Elder	Yes	Teacher	Masters	High	samsung
Elder	Yes	Teacher	Other	Low	samsung
Elder	Yes	Teacher	Other	Middle	samsung
Elder	Yes	Teacher	Other	UpperMiddle	samsung
Elder	Yes	Teacher	Other	High	samsung
Elder	Yes	Other	Bachelors	Low	samsung
Elder	Yes	Other	Bachelors	Middle	samsung
Elder	Yes	Other	Bachelors	UpperMiddle	samsung
Elder	Yes	Other	Bachelors	High	samsung
Elder	Yes	Other	Masters	Low	samsung
Elder	Yes	Other	Masters	Middle	samsung
Elder	Yes	Other	Masters	UpperMiddle	samsung
Elder	Yes	Other	Masters	High	samsung
Elder	Yes	Other	Other	Low	samsung
Elder	Yes	Other	Other	Middle	samsung
Elder	Yes	Other	Other	UpperMiddle	samsung
Elder	Yes	Other	Other	High	samsung
Elder	No	Doctor	Bachelors	Low	apple
Elder	No	Doctor	Bachelors	Middle	apple
Elder	No	Doctor	Bachelors	UpperMiddle	apple
Elder	No	Doctor	Bachelors	High	apple
Elder	No	Doctor	Masters	Low	apple
Elder	No	Doctor	Masters	Middle	apple
Elder	No	Doctor	Masters	UpperMiddle	apple
Elder	No	Doctor	Masters	High	apple
Elder	No	Doctor	Other	Low	apple
Elder	No	Doctor	Other	Middle	apple
Elder	No	Doctor	Other	UpperMiddle	apple
Elder	No	Doctor	Other	High	apple
Elder	No	Engineer	Bachelors	Low	samsung
Elder	No	Engineer	Bachelors	Middle	samsung
Elder	No	Engineer	Bachelors	UpperMiddle	samsung
Elder	No	Engineer	Bachelors	High	samsung
Elder	No	Engineer	Masters	Low	samsung
Elder	No	Engineer	Masters	Middle	samsung
Elder	No	Engineer	Masters	UpperMiddle	samsung
Elder	No	Engineer	Masters	High	samsung
Elder	No	Engineer	Other	Low	samsung
Elder	No	Engineer	Other	Middle	samsung
Elder	No	Engineer	Other	UpperMiddle	samsung
Elder	No	Engineer	Other	High	samsung
Elder	No	Teacher	Bachelors	Low	samsung
Elder	No	Teacher	Bachelors	Middle	samsung
Elder	No	Teacher	Bachelors	UpperMiddle	samsung

Elder	No	Teacher	Bachelors	High	samsung
Elder	No	Teacher	Masters	Low	samsung
Elder	No	Teacher	Masters	Middle	samsung
Elder	No	Teacher	Masters	UpperMiddle	samsung
Elder	No	Teacher	Masters	High	samsung
Elder	No	Teacher	Other	Low	samsung
Elder	No	Teacher	Other	Middle	samsung
Elder	No	Teacher	Other	UpperMiddle	samsung
Elder	No	Teacher	Other	High	samsung
Elder	No	Other	Bachelors	Low	samsung
Elder	No	Other	Bachelors	Middle	samsung
Elder	No	Other	Bachelors	UpperMiddle	samsung
Elder	No	Other	Bachelors	High	samsung
Elder	No	Other	Masters	Low	samsung
Elder	No	Other	Masters	Middle	samsung
Elder	No	Other	Masters	UpperMiddle	samsung
Elder	No	Other	Masters	High	samsung
Elder	No	Other	Other	Low	samsung
Elder	No	Other	Other	Middle	samsung
Elder	No	Other	Other	UpperMiddle	samsung
Elder	No	Other	Other	High	samsung

Appendix D

Test Date set – 01

@relation equipment-weka.filters.unsupervised.instance.Resample-S1-Z60.0-no-replacement

@attribute Age {Youth Middle Elder}
 @attribute Child {Yes No}
 @attribute Profession {Doctor Engineer Teacher Other}
 @attribute Education {Masters Bachelors Other}
 @attribute Salary {Low Middle upperMiddle High}
 @attribute Brand {Apple Samsung Laptop HTC}

@data

Middle	No	Engineer	Masters	Middle	Samsung
Middle	No	Other	Other	upperMiddle	Samsung
Middle	Yes	Other	Other	Middle	HTC
Elder	No	Engineer	Masters	upperMiddle	Samsung
Middle	No	Other	Bachelors	Middle	Samsung
Elder	Yes	Doctor	Bachelors	High	Samsung
Middle	No	Teacher	Bachelors	Low	Laptop
Middle	Yes	Other	Bachelors	upperMiddle	Apple
Elder	Yes	Other	Other	upperMiddle	Samsung
Elder	No	Doctor	Masters	Middle	Samsung
Middle	No	Other	Other	Middle	Laptop
Middle	No	Engineer	Masters	Middle	Laptop
Middle	No	Other	Bachelors	upperMiddle	Laptop
Elder	Yes	Doctor	Masters	High	Apple
Elder	Yes	Other	Masters	upperMiddle	Laptop
Youth	No	Other	Bachelors	Low	Samsung
Youth	No	Engineer	Bachelors	upperMiddle	Apple
Middle	No	Other	Other	Middle	Laptop
Middle	No	Engineer	Bachelors	High	Samsung
Elder	Yes	Other	Bachelors	Middle	Apple
Elder	Yes	Other	Bachelors	High	Samsung
Elder	No	Other	Masters	High	Apple
Middle	No	Other	Bachelors	upperMiddle	Samsung
Middle	No	Other	Masters	Middle	Samsung
Middle	No	Other	Bachelors	upperMiddle	Samsung
Youth	No	Other	Other	upperMiddle	Samsung
Middle	No	Other	Bachelors	Middle	Samsung
Middle	No	Other	Bachelors	Middle	HTC
Middle	No	Other	Bachelors	High	Samsung
Youth	No	Other	Other	upperMiddle	Laptop

Youth	No	Other	Other	Low	Samsung
Middle	Yes	Other	Masters	Middle	Apple
Middle	No	Engineer	Masters	Middle	HTC
Youth	No	Other	Other	upperMiddle	Samsung
Elder	No	Engineer	Masters	Low	Apple
Middle	No	Other	Other	Middle	Laptop
Middle	Yes	Other	Bachelors	upperMiddle	Samsung
Elder	Yes	Other	Bachelors	Low	HTC
Middle	No	Other	Bachelors	Low	Laptop
Youth	Yes	Other	Bachelors	Low	HTC
Elder	Yes	Engineer	Masters	High	Laptop
Elder	Yes	Other	Other	Low	Samsung
Youth	No	Engineer	Bachelors	upperMiddle	Apple
Youth	No	Other	Other	Low	Samsung
Elder	Yes	Other	Masters	High	HTC
Middle	Yes	Engineer	Bachelors	upperMiddle	Apple
Elder	Yes	Engineer	Masters	High	Apple
Middle	Yes	Other	Other	Middle	HTC
Elder	No	Doctor	Masters	High	HTC
Middle	Yes	Other	Bachelors	upperMiddle	Apple
Middle	No	Other	Other	Middle	Apple
Youth	No	Other	Other	upperMiddle	HTC
Youth	Yes	Other	Bachelors	Middle	Laptop
Middle	No	Engineer	Masters	Middle	Samsung
Elder	Yes	Other	Masters	High	HTC
Elder	No	Engineer	Masters	upperMiddle	Apple
Elder	Yes	Teacher	Other	Low	Laptop
Middle	Yes	Other	Bachelors	Low	Apple
Elder	Yes	Other	Other	Middle	HTC
Youth	No	Other	Other	upperMiddle	HTC
Middle	No	Engineer	Masters	High	HTC
Middle	No	Doctor	Bachelors	upperMiddle	Apple
Middle	No	Other	Other	Middle	Samsung
Middle	No	Teacher	Bachelors	Middle	Samsung
Middle	No	Other	Other	Middle	Samsung
Youth	No	Other	Other	Low	HTC
Youth	No	Other	Other	upperMiddle	HTC
Middle	No	Other	Masters	upperMiddle	HTC
Middle	No	Other	Bachelors	Middle	Laptop
Middle	Yes	Engineer	Masters	High	Apple
Middle	No	Other	Bachelors	upperMiddle	Laptop
Middle	Yes	Other	Bachelors	Low	Samsung
Middle	Yes	Doctor	Bachelors	Middle	Laptop
Middle	No	Other	Bachelors	Middle	Samsung
Middle	No	Doctor	Bachelors	Middle	Samsung

Middle	Yes	Other	Bachelors	upperMiddle	Samsung
Middle	No	Teacher	Other	Low	Samsung
Middle	No	Other	Other	Middle	Samsung
Elder	No	Doctor	Masters	upperMiddle	Apple
Middle	No	Engineer	Masters	upperMiddle	Apple
Middle	No	Engineer	Masters	High	Apple
Middle	No	Engineer	Masters	High	Apple
Middle	No	Engineer	Masters	High	Apple
Youth	No	Other	Masters	upperMiddle	Apple
Youth	No	Other	Other	Low	Laptop
Elder	Yes	Other	Bachelors	upperMiddle	Samsung
Middle	No	Other	Bachelors	Low	Samsung
Middle	No	Other	Bachelors	Middle	Samsung
Middle	No	Other	Other	Low	Samsung
Middle	No	Engineer	Masters	Middle	Samsung
Middle	No	Other	Bachelors	High	Apple
Middle	No	Doctor	Bachelors	Middle	Samsung
Youth	No	Teacher	Other	Low	Samsung
Middle	Yes	Engineer	Masters	High	Apple
Middle	Yes	Other	Other	upperMiddle	Apple
Middle	No	Other	Masters	High	Apple
Middle	No	Other	Bachelors	Middle	Apple
Middle	Yes	Other	Masters	Middle	Samsung
Middle	Yes	Engineer	Bachelors	upperMiddle	Laptop
Youth	Yes	Other	Other	Low	Apple
Middle	Yes	Other	Bachelors	Middle	Samsung
Youth	No	Other	Other	upperMiddle	Apple
Middle	Yes	Other	Other	upperMiddle	Apple
Youth	No	Other	Other	upperMiddle	Samsung
Youth	No	Other	Other	upperMiddle	Samsung
Youth	No	Other	Other	Low	HTC
Youth	No	Other	Other	Middle	Laptop
Middle	No	Engineer	Bachelors	Middle	Laptop
Middle	No	Other	Bachelors	upperMiddle	Apple
Youth	No	Other	Masters	Low	Apple
Elder	Yes	Doctor	Masters	High	Apple
Elder	Yes	Other	Masters	High	Apple
Elder	Yes	Doctor	Masters	High	Samsung
Middle	No	Other	Other	Low	Samsung
Elder	Yes	Other	Masters	High	Samsung
Youth	No	Teacher	Bachelors	Middle	HTC
Middle	No	Other	Bachelors	Middle	Samsung
Youth	No	Teacher	Other	Low	HTC
Youth	Yes	Other	Other	Low	HTC
Elder	No	Doctor	Bachelors	Middle	Samsung

Elder	Yes	Doctor	Masters	High	Samsung
Elder	Yes	Other	Bachelors	Middle	Apple
Middle	Yes	Other	Masters	High	Samsung
Elder	No	Doctor	Masters	High	Apple
Youth	No	Other	Other	Low	HTC
Elder	No	Teacher	Bachelors	upperMiddle	HTC
Elder	Yes	Other	Masters	upperMiddle	HTC
Elder	Yes	Other	Masters	High	HTC
Youth	No	Engineer	Bachelors	upperMiddle	Samsung
Youth	No	Other	Other	Middle	Apple
Middle	No	Engineer	Masters	Middle	Samsung
Middle	No	Other	Other	upperMiddle	Samsung
Middle	No	Other	Other	upperMiddle	Samsung
Middle	Yes	Other	Other	Low	Apple
Middle	Yes	Other	Other	Low	Apple
Elder	Yes	Engineer	Masters	High	Samsung
Elder	No	Engineer	Masters	upperMiddle	Samsung
Middle	No	Other	Bachelors	Middle	Samsung
Middle	No	Teacher	Bachelors	Low	Laptop
Youth	No	Other	Bachelors	Middle	Apple
Middle	Yes	Other	Masters	upperMiddle	Samsung
Middle	Yes	Other	Bachelors	upperMiddle	Apple
Youth	No	Other	Bachelors	upperMiddle	Samsung
Middle	No	Other	Bachelors	upperMiddle	Apple
Youth	No	Other	Other	Low	Samsung
Middle	No	Other	Other	Middle	Laptop
Middle	No	Engineer	Masters	Middle	Laptop
Middle	No	Other	Bachelors	upperMiddle	Laptop
Elder	Yes	Other	Masters	upperMiddle	Laptop
Elder	No	Doctor	Bachelors	upperMiddle	Apple

Test Data set -02

@relation equipment-weka.filters.unsupervised.instance.Resample-S1-Z60.0-no-replacement-weka.filters.u

@attribute Age {Teens,Middle,Elder,Youth}
 @attribute Gender {Female,Male}
 @attribute Status {Single,Married}
 @attribute Profession {Doctor,Engineer,Teacher,Other}
 @attribute Salary {Lowest,Middle,uMiddle,High,Other}
 @attribute Brand {Apple,Samsung,Other}
 @data

Youth	Male	Single	Other	Middle	Apple
Middle	Male	Married	Other	High	Apple
Youth	Male	Single	Other	Other	Other

Middle	Male	Single	Other	Middle	Samsung
Middle	Male	Single	Engineer	uMiddle	Samsung
Middle	Female	Single	Other	High	Samsung
Middle	Female	Single	Engineer	High	Apple
Middle	Female	Married	Other	Other	Samsung
Middle	Female	Single	Other	High	Samsung
Youth	Male	Single	Other	Lowest	Samsung
Elder	Male	Married	Other	Middle	Samsung
Middle	Female	Single	Other	Middle	Other
Teens	Female	Single	Other	Other	Other
Elder	Female	Married	Other	Lowest	Other
Middle	Female	Single	Other	Lowest	Other
Elder	Male	Married	Other	Other	Other
Middle	Female	Married	Engineer	High	Apple
Youth	Female	Single	Other	Lowest	Samsung
Middle	Female	Married	Other	Other	Apple
Youth	Male	Married	Other	uMiddle	Other
Elder	Male	Single	Engineer	High	Apple
Elder	Male	Married	Other	uMiddle	Other
Middle	Female	Single	Other	uMiddle	Other
Youth	Male	Single	Other	Lowest	Samsung
Middle	Female	Married	Teacher	Middle	Samsung
Middle	Male	Married	Engineer	Other	Apple
Teens	Male	Single	Other	High	Samsung
Middle	Male	Married	Doctor	uMiddle	Samsung
Middle	Male	Married	Other	Middle	Samsung
Middle	Male	Married	Other	High	Samsung
Middle	Female	Single	Teacher	Lowest	Samsung
Middle	Female	Married	Engineer	Other	Samsung
Middle	Female	Single	Other	Lowest	Apple
Middle	Male	Single	Other	Lowest	Samsung
Middle	Female	Single	Engineer	Middle	Samsung
Middle	Female	Married	Engineer	High	Samsung
Middle	Male	Single	Other	Other	Apple
Middle	Male	Married	Doctor	Other	Apple
Youth	Female	Single	Other	Lowest	Other
Middle	Female	Single	Other	Middle	Samsung
Middle	Male	Single	Engineer	High	Samsung
Youth	Male	Single	Other	Other	Samsung
Youth	Female	Single	Other	Lowest	Other
Youth	Male	Single	Other	Other	Samsung
Elder	Female	Married	Other	Other	Apple
Elder	Male	Married	Engineer	Other	Samsung
Teens	Male	Single	Other	Lowest	Other
Teens	Female	Single	Teacher	Lowest	Samsung

Youth	Female	Married	Other	Lowest	Samsung
Elder	Female	Single	Other	Lowest	Other
Elder	Female	Married	Other	High	Samsung
Youth	Male	Single	Other	Middle	Samsung
Middle	Male	Married	Other	High	Samsung
Youth	Female	Single	Other	Lowest	Other
Middle	Female	Single	Other	Middle	Samsung
Middle	Male	Single	Engineer	High	Samsung
Youth	Male	Single	Other	Other	Samsung
Youth	Female	Single	Other	Lowest	Other
Youth	Male	Single	Other	Other	Samsung
Elder	Female	Married	Other	Other	Apple

Test Data set -03

@relation equipment-weka.filters.unsupervised.instance.Resample-S1-Z60.0-no-replacement-weka.filters.unsupervised.instance.Resample-S1-Z60.0-no-replacement-V-weka.filters.unsupervised.instance.Resample-S1-Z50.0-no-replacement-V

@attribute Age {Youth Middle Elder}
 @attribute Child {Yes No}
 @attribute Profession {Doctor Engineer Teacher Other}
 @attribute Education {Masters Bachelors Other}
 @attribute Salary {Low Middle upperMiddle High}
 @attribute Brand {Apple Samsung Laptop HTC}

@data

Elder	No	Doctor	Masters	Middle	Samsung
Middle	No	Engineer	Masters	Middle	Laptop
Middle	No	Engineer	Bachelors	High	Samsung
Middle	No	Other	Bachelors	Middle	HTC
Middle	No	Other	Other	Middle	Laptop
Elder	Yes	Other	Bachelors	Low	HTC
Middle	No	Other	Bachelors	Low	Laptop

Elder	Yes	Other	Other	Low	Samsung
Middle	No	Other	Other	Middle	Apple
Elder	Yes	Other	Masters	High	HTC
Elder	No	Engineer	Masters	upperMiddle	Apple
Middle	No	Engineer	Masters	High	Apple
Middle	No	Other	Bachelors	Middle	Samsung
Middle	Yes	Other	Other	upperMiddle	Apple
Middle	Yes	Engineer	Bachelors	upperMiddle	Laptop
Youth	Yes	Other	Other	Low	Apple
Youth	No	Other	Other	upperMiddle	Samsung
Youth	No	Other	Other	Low	HTC
Middle	No	Engineer	Bachelors	Middle	Laptop
Elder	Yes	Other	Masters	High	Samsung
Youth	No	Teacher	Other	Low	HTC
Elder	Yes	Doctor	Masters	High	Samsung
Elder	No	Doctor	Masters	High	Apple
Youth	No	Engineer	Bachelors	upperMiddle	Samsung
Middle	No	Other	Other	upperMiddle	Samsung
Middle	Yes	Other	Other	Low	Apple
Middle	Yes	Other	Bachelors	upperMiddle	Apple
Middle	No	Other	Bachelors	upperMiddle	Laptop
Elder	Yes	Other	Masters	upperMiddle	Laptop
Elder	No	Doctor	Bachelors	upperMiddle	Apple