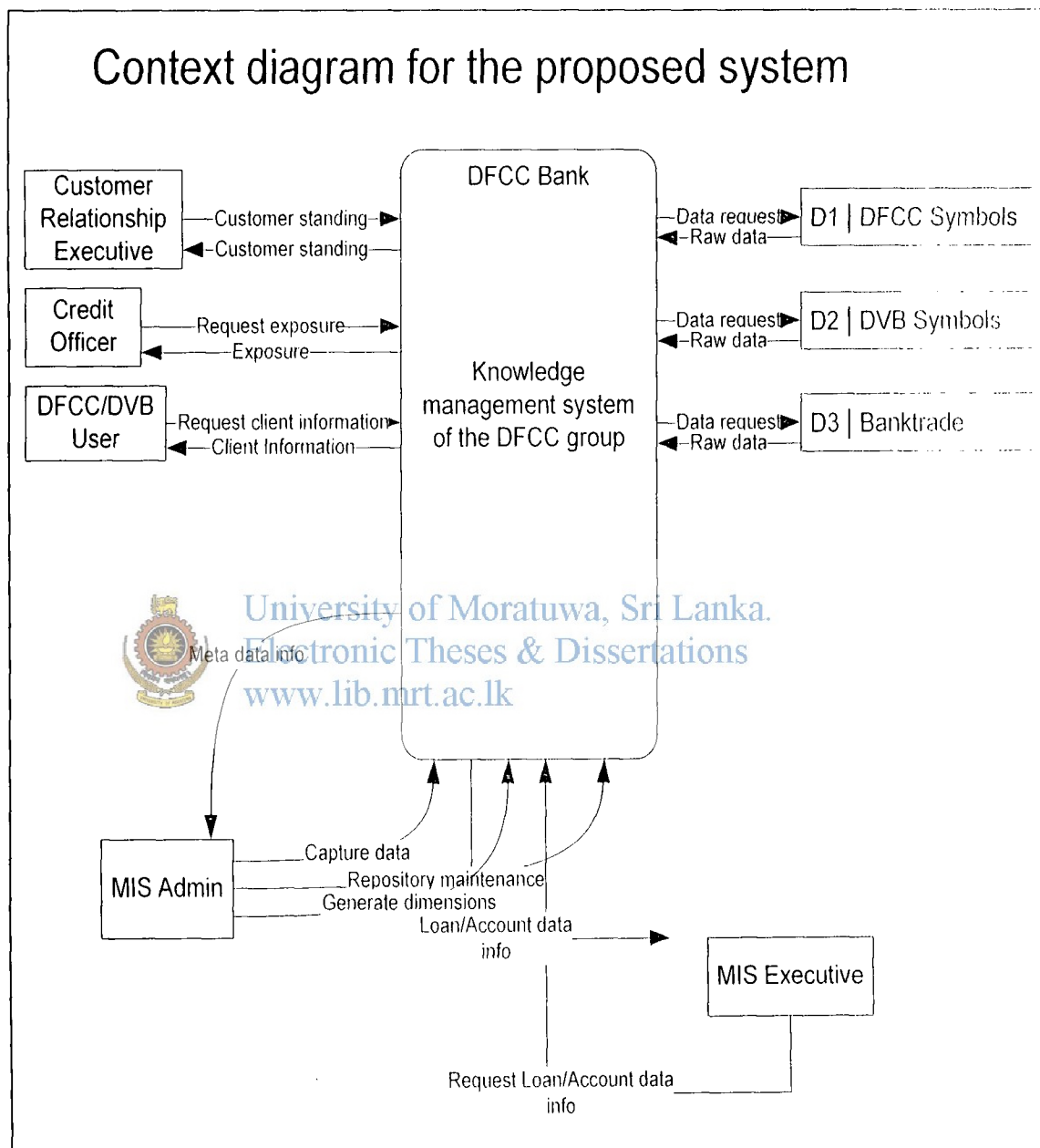


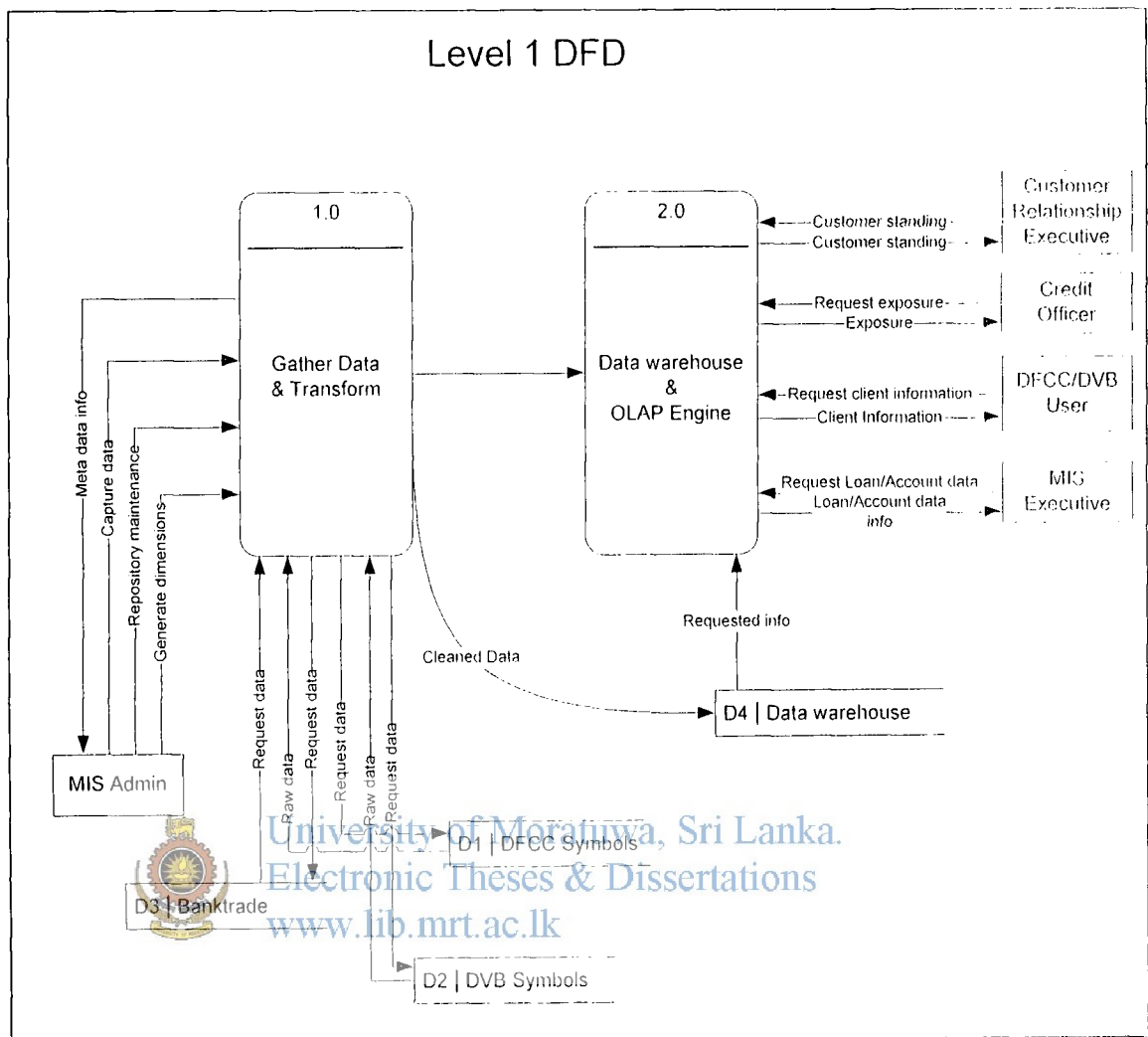
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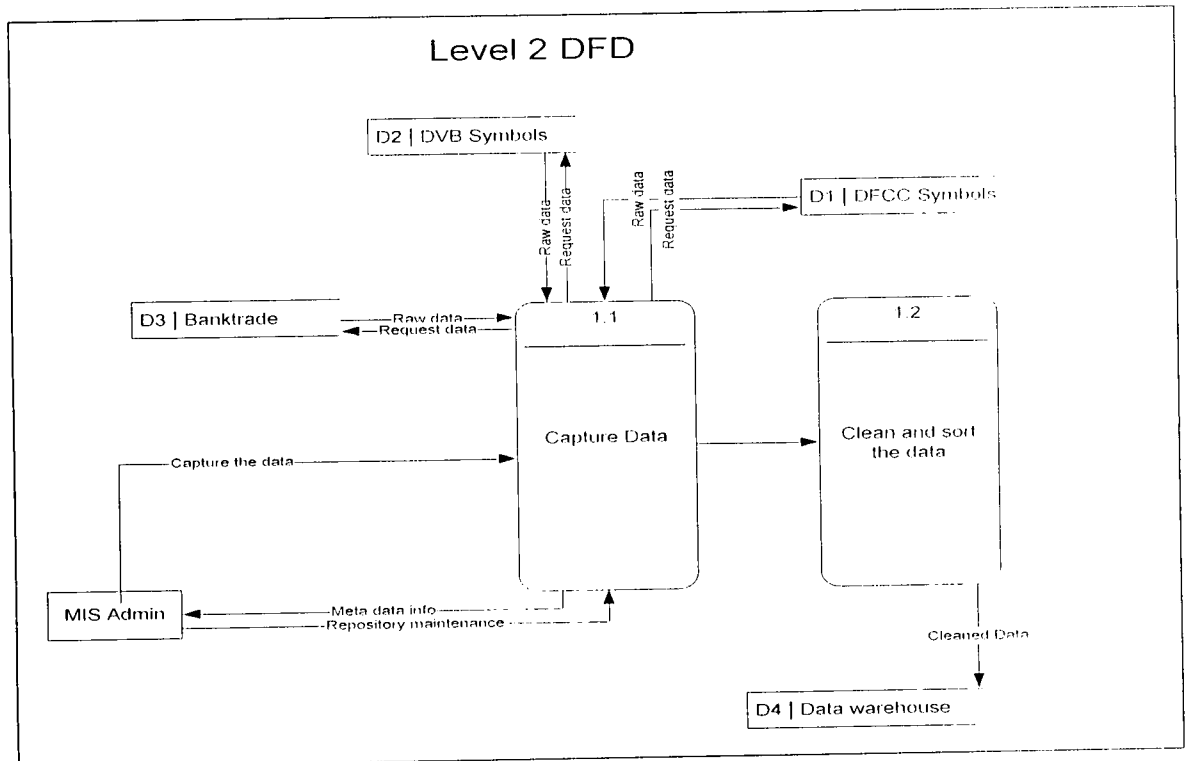
Data flow diagrams



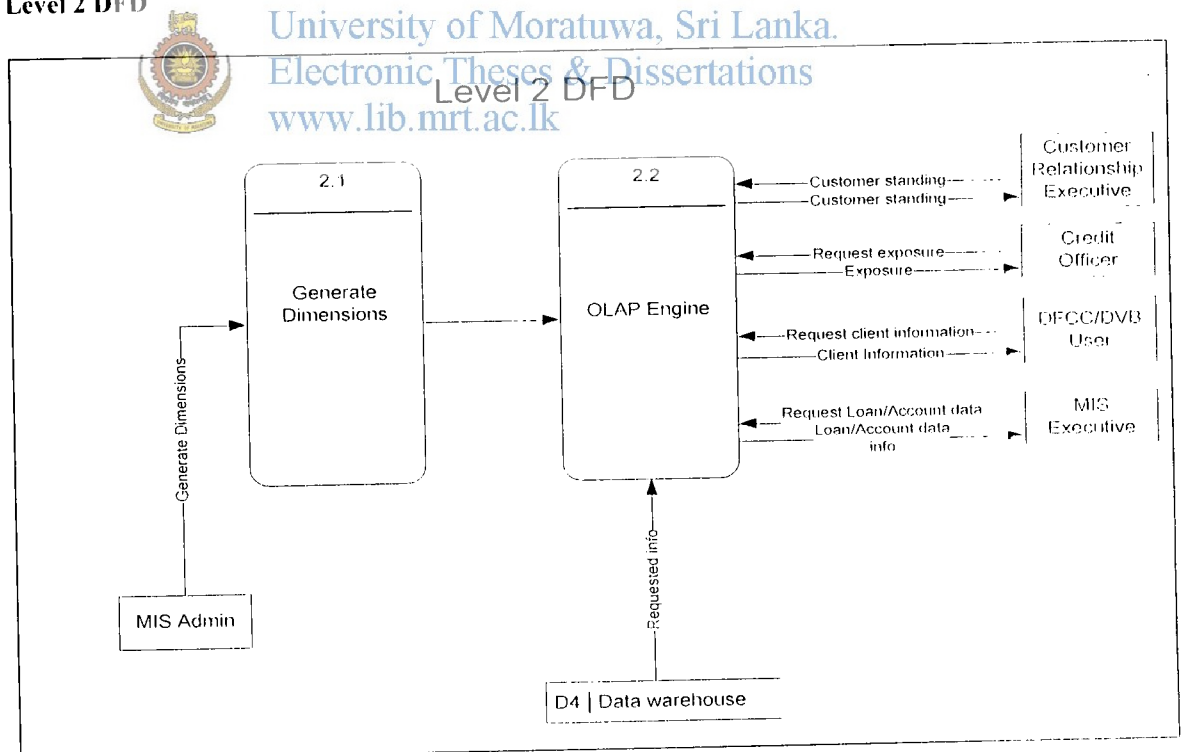
Context diagram for the proposed system



Level 1 DFD



Level 2 DFD



Level 2 DFD

Appendix B

SQL Statements used for cleansing of data

Sample 1.

```
select 'total number of clients' Global_ID, count(*) from dfcc.fm_client
union
select 'global_id is null' , count(*) from dfcc.fm_client
where global_id is NULL
union
select 'global_id is not a valid nic,length too long' , count(*) from dfcc.fm_client
where global_id_type ='NIC' and length(global_id) <> 10
union
select 'global_id has spaces in between', count(*) from dfcc.fm_client
where global_id_type ='NIC' and global_id like '% %'
union
select 'global_id has spaces in front', count(*) from dfcc.fm_client
where global_id_type ='NIC' and global_id like ' %'
union
select 'global id is NIC and length is 11 and not like 9no_space_V or X', count(*) from
dfcc.fm_client
where global_id_type ='NIC' and
length(global_id)=11 and
global_id not like '% V' and
global_id not like '% X' and
(length(global_id) = length(substr(global_id,1,9))+length(' V') or
length(global_id) = length(substr(global_id,1,9))+length(' X'))
```



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The output

GLOBAL_ID	COUNT(*)
global id is NIC and length is 11 and not like 9no_space_V or X	157
global_id has spaces in between	1273
global_id has spaces in front	72
global_id is not a valid nic.length too long	2037
global_id is null	8470
total number of clients	39504

Sample 2.

```
select client_city  
from dfcc.fm_client c  
where client_city is not null and  
upper( c. client_city) not in (select upper(city) from dfcc.postal_codes )  
order by client_city
```

The output – extract

CLIENT_CITY

1 ANURADHAPURA

1 ANURADHAPURA

Ampitiya

Aniwatta kandy

Aniwatta kandy

BEMMULLA

COL 05

D S SENANAYAKE

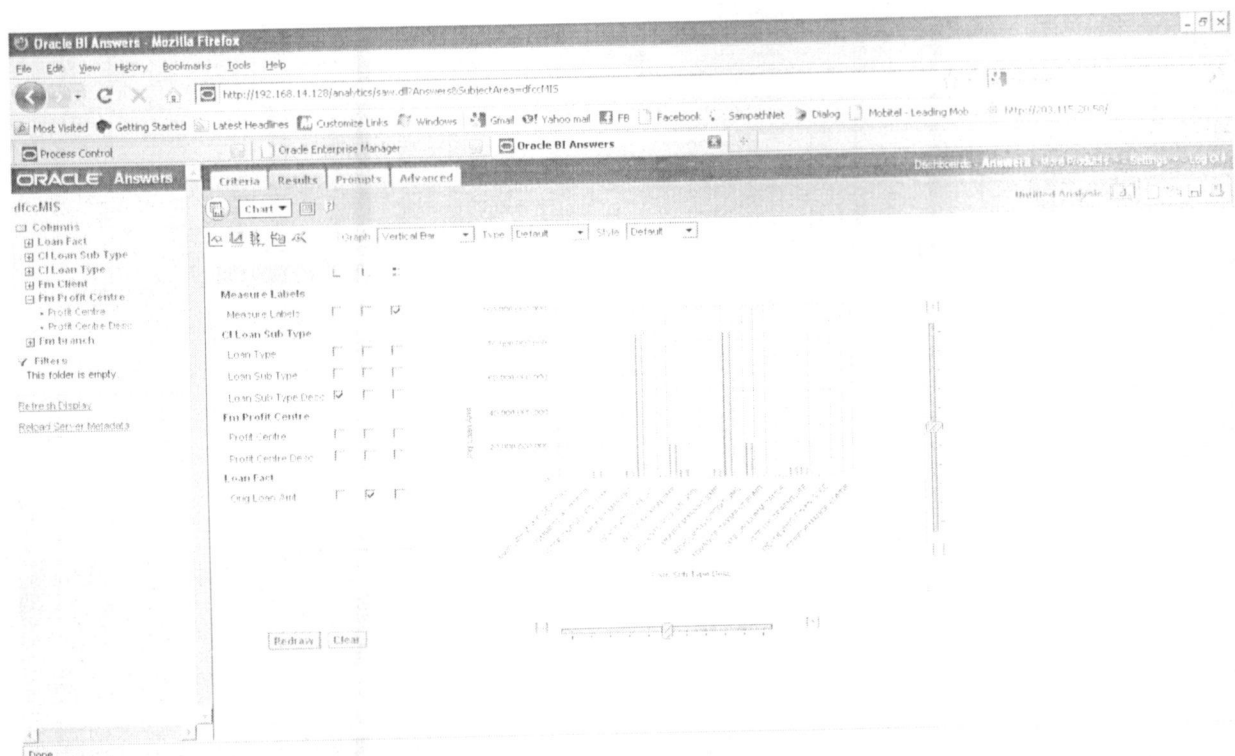
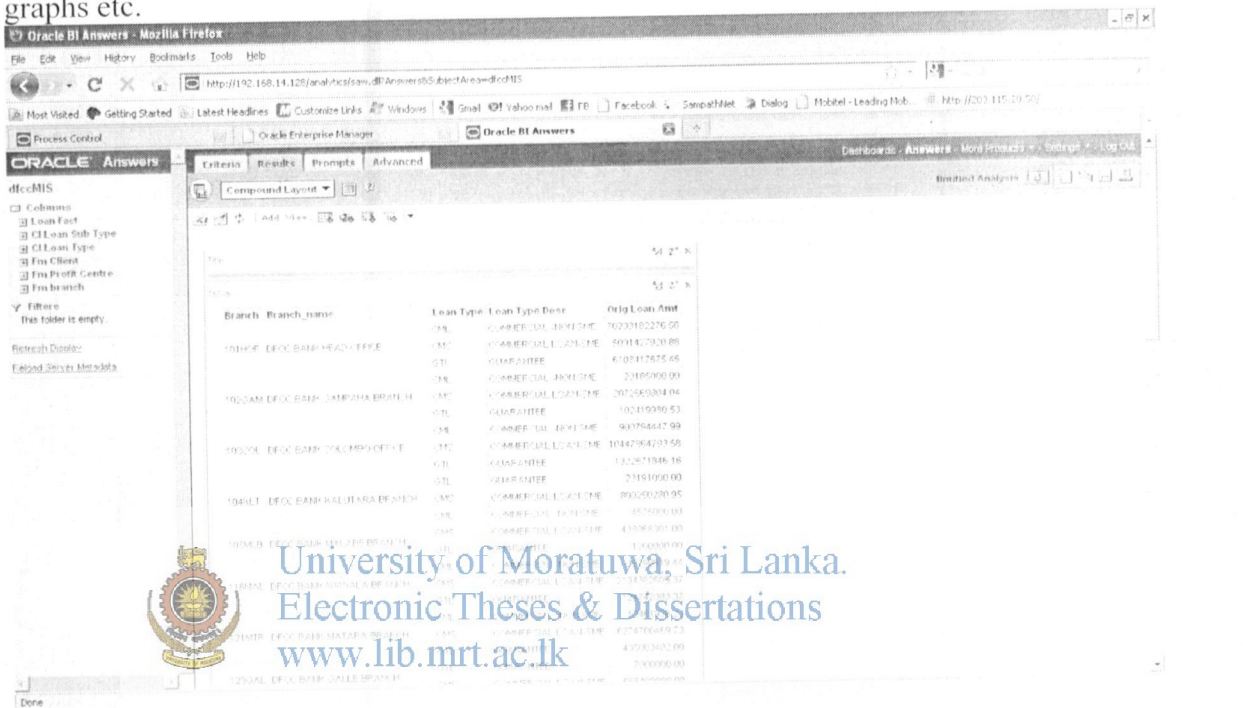
D S SENANAYAKE



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Sample reports generated out of the MIS

Columns from the left side pane can be dragged and dropped to generate reports, graphs etc.



The names are blotted out due the privacy of the customer and the non-disclosure agreement.

An experienced user with some SQL knowledge they can write their own queries.

48

Oracle BI Answers - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://192.168.14.126/analyticssaw/BIAnswersSubjectArea=dlccmis

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Process Control Oracle Enterprise Manager Oracle BI Answers

Desktops - Answers - More Productivity Settings Log Out

Untitled Analysis

Criteria Results Prompts Advanced

dlccmis

Columns

- Loan Fact
- Loan Sub Type
- Loan Type
- Fin Client
 - Acct Exec
 - Client Org
 - Client Name
 - Client No
 - Client Short
 - Client Spread
 - Client Status
 - Client Type
 - Closed Date
 - CI Client
 - Country Citizen
 - Country Loc
 - Country Prio
 - Orig Ins Pref
 - CI Rating
 - CI Branch
 - CI CI Subtype
 - BI Client
 - Expiry Date
 - FI Client
 - FI Client
 - FI Client
 - Global M
 - Global M Type
 - Industry
 - Internal Ind
 - Issuing Authority
 - Legal Proc
 - Location
 - Media Category

Request XML

The field below contains an XML representation of this analysis. Modifications directly to this XML should be done with extreme care.

```

<?xml version="1.0" encoding="UTF-8"?>
<sa:report xmlns:sa="http://schemas.oracle.com/BIAnswers/1.0" xmlns:xsd="http://www.w3.org/2001/XMLSchema" >
  <sa:criteria subjectArea="dlccmis">
    <sa:columns>
      <sa:column formula=""Fn Profit Centre"" <sa:column formula=""CI Loan Sub Type"" <sa:column formula=""Fn Client"" <sa:column formula=""Loan Fact"" <sa:columnOrder>
      <sa:columnRef columnId="c5" direction="descending" <sa:columnOrder>
      <sa:view currentView="2">
      <sa:view xsi:type="sa:compoundView" name="compoundView1" rptViewVers="2">
      <sa:table>

```

Set XML

Export Oracle BI Presentation Services Cache

SOL Issued

The field below contains the SQL that will be issued to the Oracle BI Server when the request is executed. If you wish to edit the SQL, directly make changes below and then click on the SQL button.

```

SELECT "Fn Profit Centre" "Profit Centre Desc" sa_0, "CI Loan Sub Type" "Loan Sub Type Desc" sa_1, "Fn Client" "Client Name" sa_2, "Loan Fact" "Orig Loan Ant" sa_3 FROM dlccmis ORDER BY sa_3 DESC

```

Done



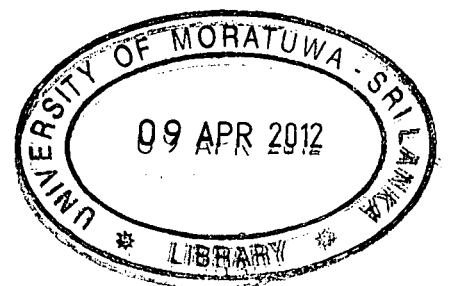
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Appendix D

Letter by the Client



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July 23, 2010

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Fax +94-11-2440376
E-mail info@dfccbank.com
Web www.dfccbank.com



TO WHOM IT MAY CONCERN

I am pleased to inform that I have guided and gone through the Management Information System designed and developed by Mr. Rajieve Samarasinghe as his project for the MSc.

The output of this solution is not a mere collection of data but very useful information which will enable the management to obtain consolidated view across multiple systems deployed in the Bank. At present the solution is being implemented on a trial basis and upon approval from the management we are planning to deploy this solution in the production environment in the Bank.



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I wish this project will be a success and beneficial to the Bank.

NEVILLE FERNANDO
VICE PRESIDENT – IT BUSINESS SYSTEMS