

# Implementation Report

## Introduction

The report is showing the database of CQCP. All tables are being defined in the report. The dependency and relationship among tables are also being defined. All tables are created in the database by the ER Diagram. There were some issues in the ER Diagram table but all have been removed from the table and new generated tables are in third normal form.

## Functional Dependency in two Tables

### *TableAnalyst*

TABLEANALYST (EID, FirstName, MiddleName, LastName, Address, Phone\_Number, Qualification, Job\_Title)

Two analysts can have same name and address and in these types of situations there should be one field which can uniquely identify the complete record. EID can be unique in the analyst table and can manage the ubiquity of the record. Therefore, FirstName, LastName and Address functionally depends upon EID-

FirstName → EID

LastName → EID

Address → EID

Every other field depends upon the primary key, so TableAnalyst is in third normal form.

Janalta Interactive Inc. 2015)

### *TablePortfolio*

TABLEPORTFOLIO (PortfolioID, ClientID, AvailableCash, ManagerID)

Two portfolios can have same manager and available cash and in these types of situations there should be one field which can uniquely identify the complete record. PortfolioID can be unique in the analyst table and can manage the ubiquity of the record. Therefore, ManagerID and AvailableCash functionally depends upon PortfolioID -

ManagerID → PortfolioID

AvailableCash → PortfolioID

Every other field depends upon the primary key, so TABLEPORTFOLIO is in third normal form.

(teach-ict.com n.d.)

### **Demonstration of Normalisation in two Tables**

Following rules are showing the rules of third normalization in the database tables-

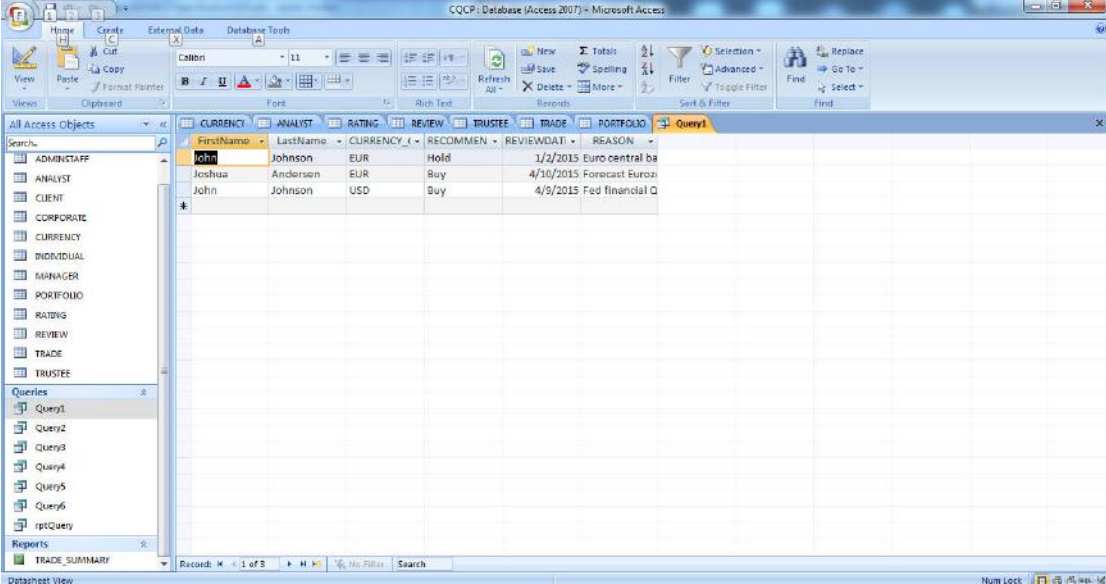
1. The data in each database table is unique.
2. Only primary key is able to uniquely identify the record.
3. There is relation among all similar tables.

TableAnalyst and TablePortflilio are shown above for functional dependency. only primary key is able to uniquely identify the record in both tables and each table is containing unique data. In this way, both tables are in third normal form.

## SQL Queries

### Query 1

```
SELECT TABLEANALYST.FirstName, TABLEANALYST.LastName,  
TABLEREVIEW.CURRENCY_CODE, TABLEREVIEW.RECOMMENDATION,  
TABLEREVIEW.REVIEWDATE, TABLEREVIEW.REASON FROM  
TABLECURRENCY INNER JOIN (TABLEANALYST INNER JOIN  
TABLEREVIEW ON TABLEANALYST.EID=TABLEREVIEW.EID) ON  
TABLECURRENCY.CurrencyCode=TABLEREVIEW.CURRENCY_CODE  
WHERE TABLEREVIEW.CURRENCY_CODE In ("USD","EUR") And  
REVIEWDATE>#1/1/2015#;
```

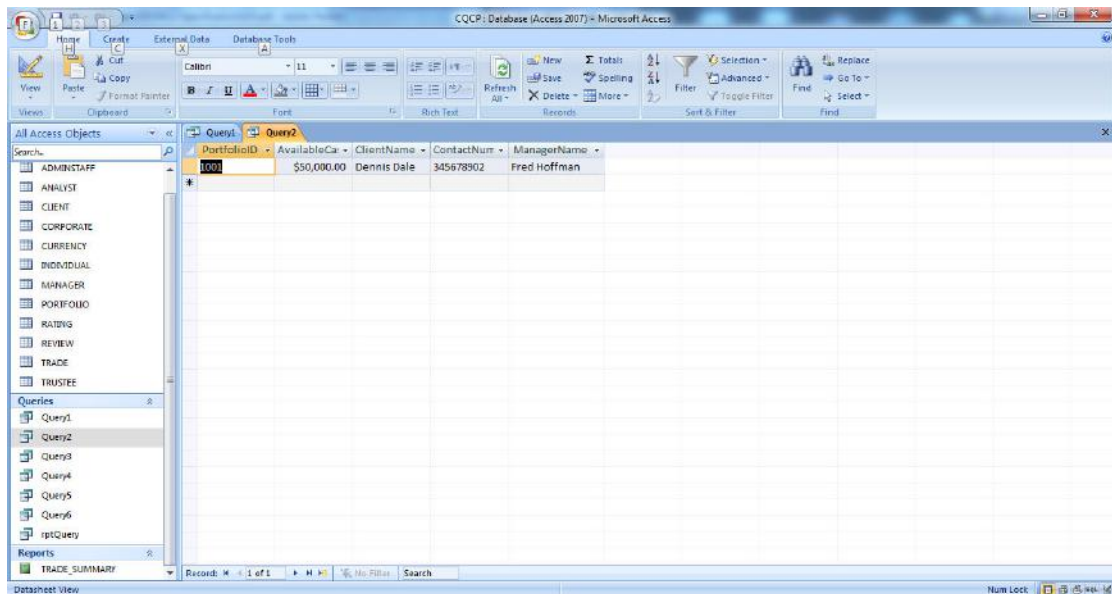


The screenshot shows the Microsoft Access interface with a query named 'Query1' displayed in Datasheet View. The query results are as follows:

First Name	Last Name	CURRENCY_CODE	RECOMMEN	REVIEWDATE	REASON
John	Johnson	EUR	Hold	1/2/2015	Euro central ba
Joshua	Andersen	EUR	Buy	4/10/2015	Forecast Euroz
John	Johnson	USD	Buy	4/5/2015	Fed financial Q

## Query 2

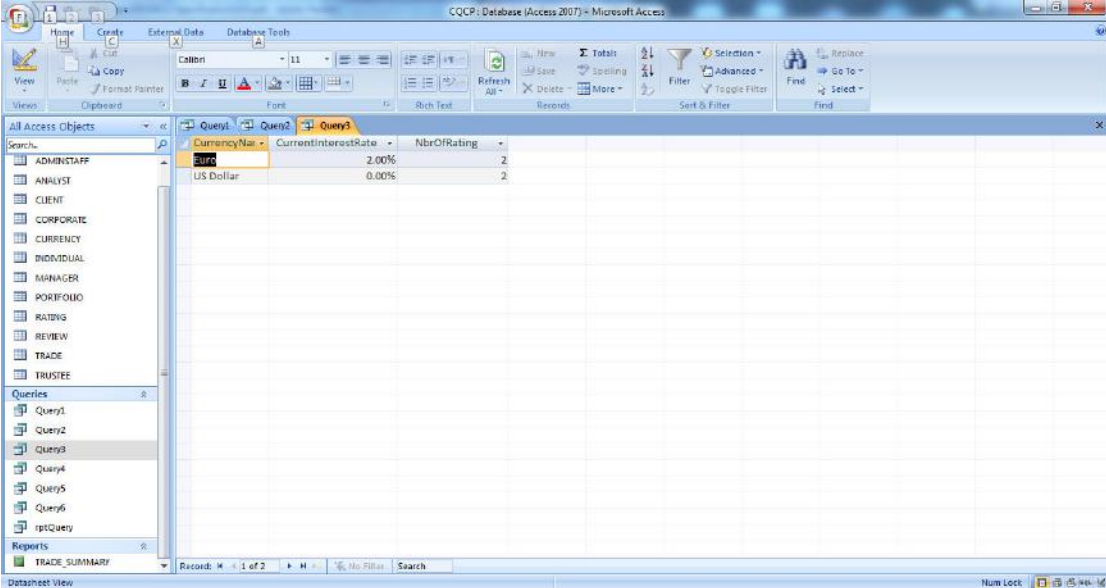
```
SELECT TABLEPORTFOLIO.PortfolioID, TABLEPORTFOLIO.AvailableCash,  
TABLECLIENT.FirstName+' '+TABLECLIENT.LastName AS ClientName,  
TABLECLIENT.ContactNumber, TABLEMANAGER.FirstName+'  
'+TABLEMANAGER.LastName AS ManagerName FROM TABLEMANAGER  
INNER JOIN (TABLECLIENT INNER JOIN TABLEPORTFOLIO ON  
TABLECLIENT.ClientID=TABLEPORTFOLIO.ClientID) ON  
TABLEMANAGER.EID=TABLEPORTFOLIO.ManagerID WHERE  
TABLEPORTFOLIO.AvailableCash=(select top 1 AvailableCash from  
TABLEPORTFOLIO order by AvailableCash);
```



PortfolioID	AvailableCa	ClientName	ContactNum	ManagerName
100	\$50,000.00	Dennis Dale	345678902	Fred Hoffman

### Query 3

```
SELECT TABLECURRENCY.CurrencyName,  
TABLECURRENCY.CurrentInterestRate, Count(TABLERATING.Rating) AS  
NbrOfRating FROM TABLECURRENCY INNER JOIN TABLERATING ON  
TABLECURRENCY.CurrencyCode = TABLERATING.CurrencyCode GROUP BY  
TABLECURRENCY.CurrencyName, TABLECURRENCY.CurrentInterestRate  
HAVING (((Count(TABLERATING.Rating))>=2));
```

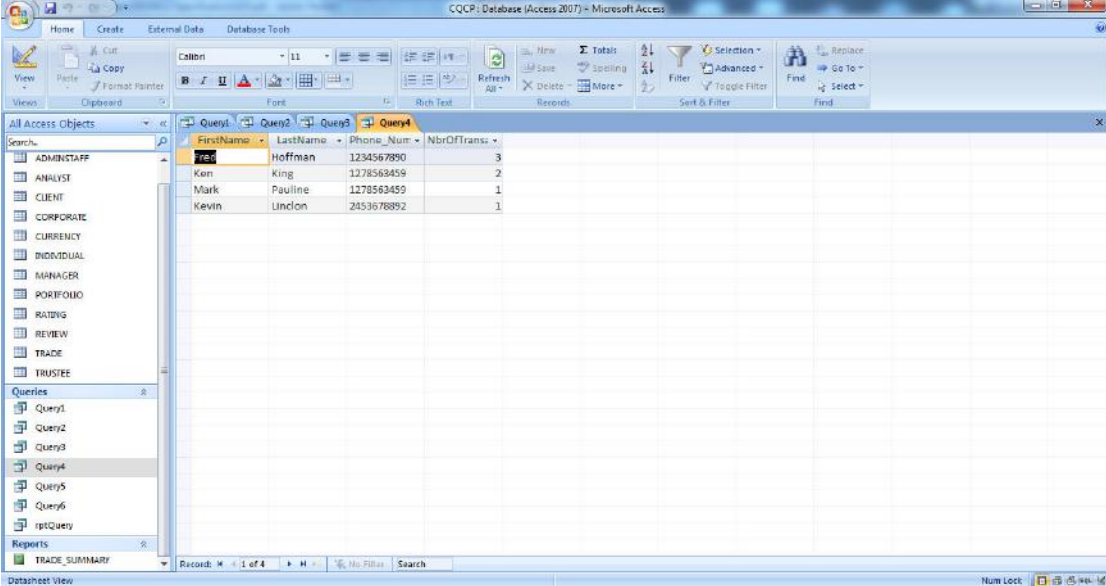


The screenshot shows the Microsoft Access interface with the following data displayed in the Query3 results table:

CurrencyName	CurrentInterestRate	NbrOfRating
Euro	2.00%	2
US Dollar	0.00%	2

## Query 4

```
SELECT FirstName, LastName, Phone_Number, count(TABLETRADE.ManagerID)
AS NbrOfTransaction FROM TABLEMANAGER INNER JOIN TABLETRADE
ON TABLEMANAGER.EID=TABLETRADE.ManagerID GROUP BY FirstName,
LastName, Phone_Number ORDER BY count(TABLETRADE.ManagerID) DESC;
```

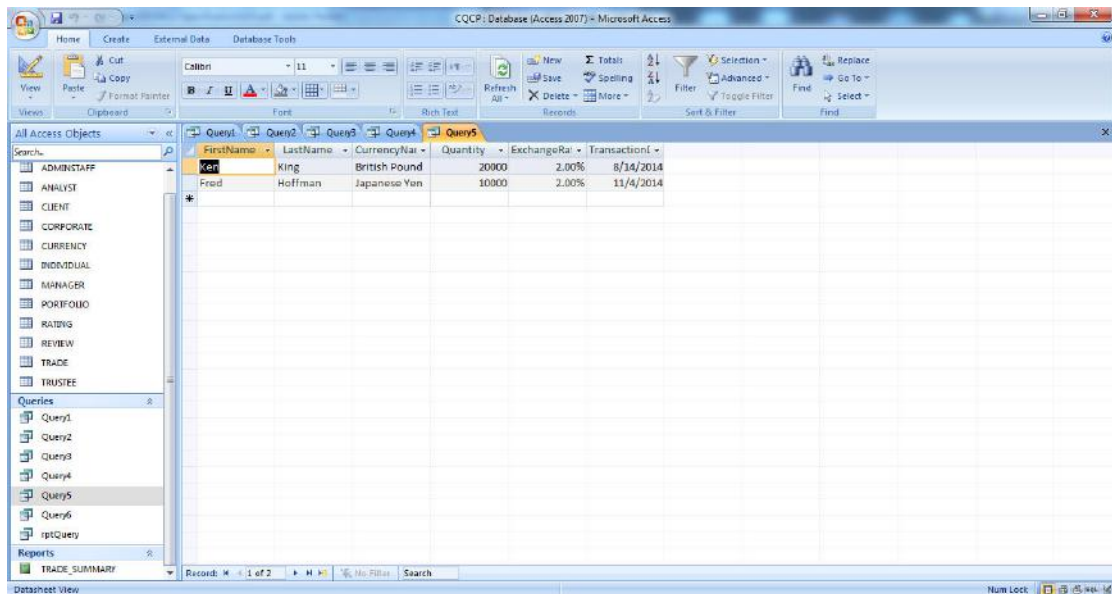


The screenshot shows the Microsoft Access interface with the 'Query4' datasheet open. The table contains the following data:

FirstName	LastName	Phone_Num	NbrOfTrans
Jack	Hoffman	1234567890	3
Kerr	King	1278563459	2
Mark	Pauline	1278563459	1
Kevin	Linclon	2453678892	1

## Query 5

```
SELECT FirstName, LastName, CurrencyName, Quantity, ExchangeRate,
TransactionDate FROM TABLECURRENCY INNER JOIN (TABLEMANAGER
INNER JOIN TABLETRADE ON
TABLEMANAGER.EID=TABLETRADE.ManagerID) ON
TABLECURRENCY.CurrencyCode=TABLETRADE.CurrencyCode WHERE
(((TABLETRADE.TransactionDate)>#1/7/2014# And
(TABLETRADE.TransactionDate)<#1/1/2015#) And
(TABLETRADE.CurrencyCode) In ("GBP","JPY")) And
(TABLETRADE.Trade_Mode)="Buy");
```

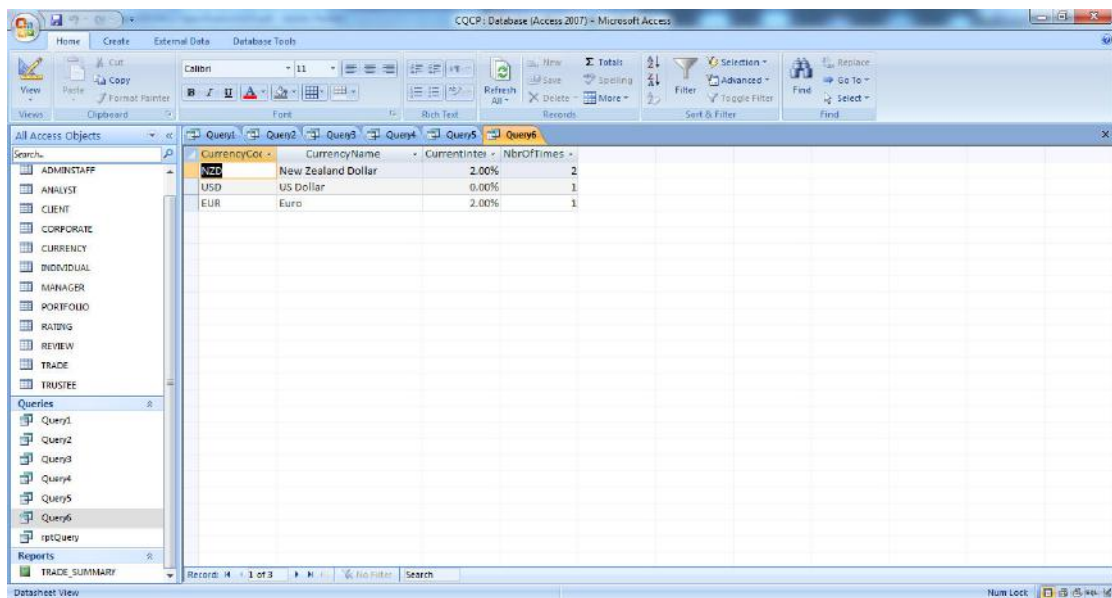


The screenshot shows the Microsoft Access interface with a query named 'Query5' displayed in Datasheet View. The query results are shown in a table with the following columns: FirstName, LastName, CurrencyName, Quantity, ExchangeRate, and TransactionDate. The table contains two records.

FirstName	LastName	CurrencyName	Quantity	ExchangeRate	TransactionDate
King		British Pound	20000	2.00%	8/14/2014
Fred	Hoffman	Japanese Yen	10000	2.00%	11/4/2014

## Query 6

```
SELECT TABLECURRENCY.CurrencyCode, TABLECURRENCY.CurrencyName,
TABLECURRENCY.CurrentInterestRate, count(TABLETRADE.CurrencyCode) AS
NbrOfTimesTraded FROM TABLECURRENCY INNER JOIN TABLETRADE ON
TABLECURRENCY.CurrencyCode=TABLETRADE.CurrencyCode GROUP BY
TABLECURRENCY.CurrencyCode, TABLECURRENCY.CurrencyName,
TABLECURRENCY.CurrentInterestRate HAVING
TABLECURRENCY.CurrencyCode in (SELECT top 3 CurrencyCode FROM
TABLETRADE order by TransactionDate desc;) ORDER BY
count(TABLETRADE.CurrencyCode) DESC;
```

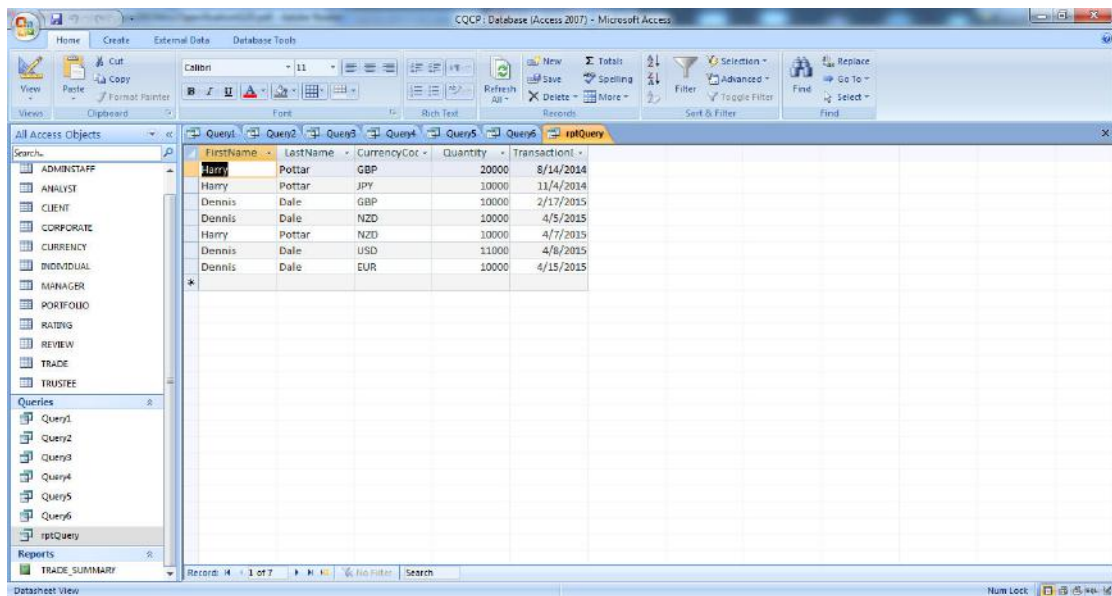


CurrencyCode	CurrencyName	CurrentInterestRate	NbrOfTimes
NZD	New Zealand Dollar	2.00%	2
USD	US Dollar	0.00%	1
EUR	Euro	2.00%	1



## Report Query

```
SELECT TABLECLIENT.FirstName, TABLECLIENT.LastName,  
TABLETRADE.CurrencyCode, TABLETRADE.Quantity,  
TABLETRADE.TransactionDate FROM (TABLECLIENT INNER JOIN  
TABLEPORTFOLIO ON TABLECLIENT.ClientID=TABLEPORTFOLIO.ClientID)  
INNER JOIN TABLETRADE ON  
TABLEPORTFOLIO.PortfolioID=TABLETRADE.PortfolioID ORDER BY  
TABLETRADE.TransactionDate;
```



FirstName	LastName	CurrencyCode	Quantity	TransactionDate
Harry	Pottar	GBP	20000	8/14/2014
Harry	Pottar	JPY	10000	11/4/2014
Dennis	Dale	GBP	10000	2/17/2015
Dennis	Dale	NZD	10000	4/5/2015
Harry	Pottar	NZD	10000	4/7/2015
Dennis	Dale	USD	11000	4/8/2015
Dennis	Dale	EUR	10000	4/15/2015

## Summary Report

Report - Summary of Investors and Their Currency

First Name	Last Name	CurrencyCode	Quantity	Date
Henry	Fottier	GBP	20000	8/14/2014
Henry	Fottier	JPY	10000	11/4/2014
Dennis	Dale	GBP	10000	2/17/2015
Dennis	Dale	NZD	10000	4/5/2015
Henry	Fottier	NZD	10000	4/7/2015
Dennis	Dale	USD	11000	4/8/2015
Dennis	Dale	EUR	10000	4/15/2015
7 Total Trades				

Page 1 of 1  
Thursday, April 30, 2015

## Limitations in Assignment

There is no any big limitation in the assignment but there are some lack of features in the assignment as defined below-

1. Lack of making forms
2. Lack of outer join queries

## Learning Features in Assignment

There are so many learning features in the assignment-

1. Use of sub queries
2. Use of Currency data type
3. Report Generation
4. Use of Group by clause
5. Use of Count Function etc.

## Conclusion

The report is showing full database implementation including queries, report in ms access etc. the report is giving brief overview of CQCP database. The report is giving knowledge about normalization, functional dependency in the tables also.

After studying this report, user can easily understand the CQCP database functionality.

## References

[1] Janalta Interactive Inc. 2015, Functional Dependency, Viewed on 13<sup>th</sup> May 2015  
<<http://www.techopedia.com/definition/19504/functional-dependency>>

[2] teach-ict.com n.d., Third Normal Form, Viewed on 13<sup>th</sup> May 2015  
< [http://www.teach-ict.com/as\\_a2\\_ict\\_new/ocr/AS\\_G061/315\\_database\\_concepts/normalisation/miniweb/pg9.htm](http://www.teach-ict.com/as_a2_ict_new/ocr/AS_G061/315_database_concepts/normalisation/miniweb/pg9.htm)>

Table Tools

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  - Query3
  - Query4
  - Query5
  - Query6
  - rptQuery
- Reports
- TRADE\_SUMMARY

EID	FirstName	MiddleName	LastName	Address	Phone_Num	Qualification	Job_Title	Add New Field
1	Harry	M.	Johnson	Newyork NY	1234567890	B.Tech	Administrator	
2	Kevin	S.	Andersen	Pittsburgh	1278563459	M.Tech	HR	
3	John	M.	Aka	Newyork NY	2453678892	B.Com.	Accountant	
*	(New)							

Record: 1 of 3 No Filter Search

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- Query5
- Query6
- rptQuery

Reports

- TRADE\_SUMMARY

EID	FirstName	MiddleName	LastName	Address	Phone_Num	Expertise	Job_Title	Add New Field
1	John	M.	Johnson	Newyork NY	1234567890	B.Tech	Analyst	
2	Joshua	S.	Andersen	Pittsburgh	1278563459	M.Tech	Professionalist	
3	Linda	M.	Aka	Newyork NY	2453678892	B.Com.	Analysar	
*	(New)							

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  - Query4
  - Query5
  - Query6
  - rptQuery
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- TRADE\_SUMMARY

ClientID	FirstName	MiddleName	LastName	Address	ContactNum	Add New Field
1	Dennis	M.	Dale	Pittsburgh	345678902	
2	Harry	M.	Pottar	Newyork NY	536482901	
3	Dennis	W.	Richie	Pittsburgh	453756765	
4	Shorey	K.	Smith	Newyork NY	457654768	
5	John	W.	Player	Pittsburgh	456543736	
6	Robbin	K.	Wadra	Newyork NY	436464364	
*	(New)					

Datasheet View | Record: 1 of 6 | No Filter | Search

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  - Query4
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  - Query6
  - rptQuery
- Reports
- TRADE\_SUMMARY

ClientID	ABN
1	AX1234678889
2	AZIQ79879899
*	

Datasheet View Record: 1 of 2 No Filter Search

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Sort & Filter: Filter, Selection, Advanced, Toggle Filter

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  - rptQuery
- Reports
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CurrencyCoc	CurrencyName	CurrentInterestRate	Add New Field
EUR	Euro	2.00%	
GBP	British Pound	2.00%	
JPY	Japanese Yen	2.00%	
NZD	New Zealand Dollar	2.00%	
USD	US Dollar	0.00%	
*			

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Datasheet View



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ClientID	TFN
3	ALP354353456
5	ALIP57658585
*	

Record: 1 of 2 No Filter Search

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  - rptQuery
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- TRADE\_SUMMARY

EID	FirstName	MiddleName	LastName	Address	Phone_Num	Qualification	Job_Title	Add New Field
1	Fred	M.	Hoffman	Newyork NY	1234567890	B.Tech	Analyst	
2	Ken	S.	King	Pittsburgh	1278563459	M.Tech	Professionalist	
3	Kevin	M.	Linclon	Newyork NY	2453678892	B.Com.	Analysar	
4	Mark	S.	Pauline	Pittsburgh	1278563459	M.Tech	Professionalist	
5	David	M.	King	Newyork NY	2453678892	B.Com.	Analysar	
6	Jeff	M.	Lincoln	Newyork NY	2453678892	B.Com.	Analysar	
*	(New)							

Microsoft Access - Assignment2 : Database (Access 2007)



Datasheet View Record: 1 of 6 No Filter

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PortfolioID	ClientID	AvailableCa	ManagerID	Add New Field
1001	1	\$50,000.00	1	
1002	2	\$100,000.00	2	
*				

Record: 1 of 2 | No Filter | Search

Datasheet View | Num Lock

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CurrencyCode	Rating	RatingDate	Agency
EUR	Aaa	18-Apr-15	Fitch
EUR	AA	01-Apr-15	Moody
GBP	Aab	23-Apr-15	Fitch
USD	AA	10-Feb-15	Moody
USD	ABA	18-Apr-15	Fitch
*			

Record: 1 of 5 | No Filter | Search

Datasheet View

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Security Warning: Certain content in the database has been disabled. Options...

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- Query6
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EID	CURRENCY	RECOMMEN	REASON	REVIEWDATI
1	EUR	Hold	Euro central ba	02-Jan-15
2	EUR	Buy	Forecast Euroz	10-Apr-15
2	GBP	Sell	Forecast Euroz	18-Dec-14
3	GBP	Buy	Forecast Euroz	15-Jan-15
1	USD	Buy	Fed financial Q	09-Apr-15
*				

Record: 1 of 5 | No Filter | Search

Datasheet View

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- rptQuery

Reports

- TRADE\_SUMMARY

ID	ManagerID	CurrencyCoc	Quantity	ExchangeRa	Amount	Trade_Mode	TransactionI	PortfolioD	Add New Field
2	1	USD	11000	0.01%	1000	Buy	08-Apr-15	1001	
3	2	EUR	10000	0.02%	1000	Sale	15-Apr-15	1001	
4	3	GBP	10000	2.00%	1000	Buy	17-Feb-15	1001	
5	4	NZD	10000	2.00%	1000	Buy	05-Apr-15	1001	
6	1	NZD	10000	2.00%	1000	Sale	07-Apr-15	1002	
7	1	JPY	10000	2.00%	1000	Buy	04-Nov-14	1002	
8	2	GBP	20000	2.00%	2000	Buy	14-Aug-14	1002	
*	(New)			0.00%					

Record: 1 of 7 No Filter Search

Table Tools

Home Create External Data Database Tools Datasheet

View Paste Cut Copy Format Painter

Calibri 11

B I U A Font

Rich Text

Refresh All New Save Delete Records

Totals Spelling More

Filter Selection Advanced Toggle Filter Sort & Filter

Find Replace Go To Select Find

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  - Query3
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  - rptQuery
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ClientID	AccountNun
4	AXH5476577
6	AXKP2343535
*	

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Queries

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- Query4
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- rptQuery

Reports

- TRADE\_SUMMARY

FirstName	LastName	CURRENCY_(	RECOMMEN	REVIEWDATI	REASON
John	Johnson	EUR	Hold	02-Jan-15	Euro central ba
Joshua	Andersen	EUR	Buy	10-Apr-15	Forecast Euroz
John	Johnson	USD	Buy	09-Apr-15	Fed financial Q
*					

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- Query4
- Query5
- Query6
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Reports

- TRADE\_SUMMARY

Query2

PortfolioID	AvailableCa	ClientName	ContactNum	ManagerName
1001	\$50,000.00	Dennis Dale	345678902	Fred Hoffman
*				

Record: 1 of 1 No Filter Search

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Records

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Query3

CurrencyName	CurrentInterestRate	NbrOfRating
Euro	2.00%	2
US Dollar	0.00%	2

Record: 1 of 2 No Filter Search

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FirstName	LastName	Phone_Num	NbrOfTrans
Fred	Hoffman	1234567890	3
Ken	King	1278563459	2
Mark	Pauline	1278563459	1
Kevin	Linclon	2453678892	1

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  - rptQuery
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- TRADE\_SUMMARY

Query5

FirstName	LastName	CurrencyName	Quantity	ExchangeRate	TransactionDate
Ken	King	British Pound	20000	2.00%	14-Aug-14
Fred	Hoffman	Japanese Yen	10000	2.00%	04-Nov-14
*					

Record: 1 of 2 No Filter Search

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Queries

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- Query5
- Query6
- rptQuery

Reports

- TRADE\_SUMMARY

Query6

CurrencyCoc	CurrencyName	CurrentInterestRate	NbrOfTimes
NZD	New Zealand Dollar	2.00%	2
USD	US Dollar	0.00%	1
EUR	Euro	2.00%	1

Record: 1 of 3 No Filter Search

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- rptQuery

Reports

- TRADE\_SUMMARY

TRADE\_SUMMARY

### Report - Summary of Investors and Their Currency

First Name	Last Name	CurrencyCode	Quantity	Date
Harry	Pottar	GBP	20000	14-Aug-14
Harry	Pottar	JPY	10000	04-Nov-14
Dennis	Dale	GBP	10000	17-Feb-15
Dennis	Dale	NZD	10000	05-Apr-15
Harry	Pottar	NZD	10000	07-Apr-15
Dennis	Dale	USD	11000	08-Apr-15
Dennis	Dale	EUR	10000	15-Apr-15

7 Total Trades

Friday, December 30, 2016

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