## Question1&2

MySQL Client (MariaDB 10.2 (x64)) - "C:\Program Files\MariaDB 10.2\bin\mysql.exe" "--defaults-file=C:\Program Files\MariaDB 10.2\data\my.ini" -uroot -p

```
Enter password: ****
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 13
Server version: 10.2.8-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> create database BidvestBank;
ERROR 1007 (HY000): Can't create database 'bidvestbank'; database exists
MariaDB [(none)]> use BidvestBank;
Database changed
MariaDB [BidvestBank]> create table BankBranch(
    -> branchName varchar(20) not null,
   -> branchCity varchar(20) not null,
   -> assets double not null,
   -> primary key(branchName)
   -> );
Query OK, 0 rows affected (0.80 sec)
MariaDB [BidvestBank]> create table Customer(
   -> customerName varchar(20) not null,
   -> customerStreet varchar(20) not null,
   -> customerCity varchar(20) not null
   -> );
Query OK, 0 rows affected (0.81 sec)
MariaDB [BidvestBank]> create table Loan(
   -> loanNumber varchar(5) not null,
   -> branchName varchar(20) not null,
   -> amount double not null,
   -> primary key(loanNumber)
    -> );
Query OK, 0 rows affected (1.37 sec)
MariaDB [BidvestBank]> create table Depositer(
   -> customerName varchar(20) not null,
   -> accountNumber varchar(20) not null
   -> );
Query OK, 0 rows affected (0.62 sec)
MariaDB [BidvestBank]> create table Borrower(
    -> customerName varchar(20) not null,
   -> loanNumber varchar(5) not null
    -> );
```

```
-> assets double not null,
    -> primary key(branchName)
Query OK, 0 rows affected (0.80 sec)
MariaDB [BidvestBank]> create table Customer(
    -> customerName varchar(20) not null,
    -> customerStreet varchar(20) not null,
    -> customerCity varchar(20) not null
Query OK, 0 rows affected (0.81 sec)
MariaDB [BidvestBank]> create table Loan(
    -> loanNumber varchar(5) not null,
   -> branchName varchar(20) not null,
   -> amount double not null,
   -> primary key(loanNumber)
   -> );
Query OK, 0 rows affected (1.37 sec)
MariaDB [BidvestBank]> create table Depositer(
    -> customerName varchar(20) not null,
    -> accountNumber varchar(20) not null
Query OK, 0 rows affected (0.62 sec)
MariaDB [BidvestBank]> create table Borrower(
    -> customerName varchar(20) not null,
    -> loanNumber varchar(5) not null
   -> );
Query OK, 0 rows affected (0.42 sec)
MariaDB [BidvestBank]> create table CustomerAccount(
   -> accountNumber varchar(10) not null,
    -> branchName varchar(20) not null,
   -> balance double not null,
   -> primary key(accountNumber)
   -> );
Query OK, 0 rows affected (0.48 sec)
MariaDB [BidvestBank]> create table Employee(
   -> employeeName varchar(20) not null,
   -> branchName varchar(20) not null,
   -> salary double not null
Ouery OK, 0 rows affected (0.43 sec)
```

## Question3

```
lariaDB [BidvestBank]> insert into CustomerAccount values("A-5324","Newtown",500);
Query OK, 1 row affected (0.55 sec)
MariaDB [BidvestBank]> insert into CustomerAccount values("A-5624","Sunnyside",400);
Query OK, 1 row affected (0.07 sec)
MariaDB [BidvestBank]> insert into CustomerAccount values("A-7794","Midrand",900);
Query OK, 1 row affected (0.06 sec)
MariaDB [BidvestBank]> insert into CustomerAccount values("A-4467","Mabopane",700);
Query OK, 1 row affected (0.15 sec)
MariaDB [BidvestBank]> insert into CustomerAccount values("A-3546","Midrand",750);
Query OK, 1 row affected (0.07 sec)
MariaDB [BidvestBank]> insert into CustomerAccount values("A-3453","Universitas",700);
Query OK, 1 row affected (0.14 sec)
MariaDB [BidvestBank]> insert into CustomerAccount values("A-2542","Mamelodi",350);
Query OK, 1 row affected (0.06 sec)
MariaDB [BidvestBank]> show CustomerAccount;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'CustomerAcc
ount' at line 1
MariaDB [BidvestBank]> Select * from CustomerAccount;
 accountNumber | branchName | balance |
 A-2542
                 Mamelodi
 A-3453
                 Universitas
                                   700
 A-3546
                 Midrand
                                   750
 A-4467
                                   700
                 Mabopane
 A-5324
                                   500
                 Newtown
 A-5624
                 Sunnyside
                                   400
 A-7794
                 Midrand
                                   900
 rows in set (0.04 sec)
MariaDB [BidvestBank]>
                                                                                                                                               DOWNLOAD VIDEO
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👿 MySQL Client (MariaDB 10.2 (x64)) - "C:\Program Files\MariaDB 10.2\bin\mysql.exe" "--defaults-file=C:\Program Files\MariaDB 10.2\data\my.ini" -uroot -p
  Universitas | Bloemfontein | 2100000
  rows in set (0.00 sec)
MariaDB [BidvestBank]> insert into Customer values("Modise","Spring","George");
Query OK, 1 row affected (0.40 sec)
 lariaDB [BidvestBank]> insert into Customer values("Brooks","Senator","Johannesburg");
Query OK, 1 row affected (0.10 sec)
MariaDB [BidvestBank]> insert into Customer values("Jooste","North","Kimberly");
Query OK, 1 row affected (0.12 sec)
MariaDB [BidvestBank]> insert into Customer values("Lombard","Sand Hill","Nelspruit");
Query OK, 1 row affected (0.09 sec)
MariaDB [BidvestBank]> insert into Customer values("Mokwena","Walnut","Port-Elizabeth");
Query OK, 1 row affected (0.15 sec)
MariaDB [BidvestBank]> insert into Customer values("Johnson","Mmabatho","Mafikeng");
Query OK, 1 row affected (0.07 sec)
MariaDB [BidvestBank]> insert into Customer values("Johnson","Alma","Bloemfontein");
Query OK, 1 row affected (0.06 sec)
MariaDB [BidvestBank]> insert into Customer values("Zwane","Main","Mafikeng");
Query OK, 1 row affected (0.10 sec)
MariaDB [BidvestBank]> insert into Customer values("Lindsay","Park","George");
Query OK, 1 row affected (0.18 sec)
MariaDB [BidvestBank]> insert into Customer values("Smith","North","Kimberly");
Query OK, 1 row affected (0.05 sec)
 MariaDB [BidvestBank]> insert into Customer values("Dlamini","Putnam","Port-Elizabeth");
Query OK, 1 row affected (0.10 sec)
MariaDB [BidvestBank]> insert into Customer values("Williams","Nassau","Giyane");
Query OK, 1 row affected (0.05 sec)
MariaDB [BidvestBank]> Select * from Customer;
  customerName | customerStreet | customerCity
  Modise
                     Spring
                                           George
                                           Johannesburg
  Brooks
                     Senator
甅 MySQL Client (MariaDB 10.2 (x64)) - "C:\Program Files\MariaDB 10.2\bin\mysql.exe" "--defaults-file=C:\Program Files\MariaDB 10.2\data\my.ini"-uroot -p
 lariaDB [BidvestBank]> Select * from Customer;
  customerName | customerStreet | customerCity
                     Spring
Senator
North
Sand Hill
Walnut
Mmabatho
Alma
Main
Park
North
Putnam
Nassau
  Modise
                                           George
Johannesburg
  Modise
Brooks
Jooste
Lombard
Mokwena
Johnson
Johnson
                                          Johannesburg
Kimberly
Nelspruit
Port-Elizabeth
Mafikeng
Bloemfontein
Mafikeng
  Zwane
Lindsay
Smith
Dlamini
Williams
                                           George
Kimberly
Port-Elizabeth
Giyane
 2 rows in set (0.00 sec)
 |ariaDB [BidvestBank]> _
```

## Question4

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🖪 Select MySQL Client (MariaDB 10.2 (x64)) - "C:\Program Files\MariaDB 10.2\bin\mysql.exe" "--defaults-file=C:\Program Files\MariaDB 10.2\data\my.ini" -uroot -ρ
1 row in set (0.05 sec)
MariaDB [BidvestBank]> Select * from CustomerAccount where balance < 700;
 accountNumber | branchName | balance |
 -----
              Mamelodi
 A-2542
 A-5324
               Newtown
                               500
 A-5624
              | Sunnyside |
                               400
 rows in set (0.00 sec)
MariaDB [BidvestBank]> Select customerName from Customer where customerCity = "Johannesburg";
 customerName
 Brooks
 -----+
1 row in set (0.00 sec)
MariaDB [BidvestBank]> Select * from Employee where salary > 1500 and branchName != "Newtown";
 employeeName | branchName | salary |
 Gopal
             | Sunnyside | 5300
 Sato
             Austin 1600
 -----
 rows in set (0.03 sec)
MariaDB [BidvestBank]> Select Avg(salary) from Employee;
 Avg(salary)
      2062.5
1 row in set (0.00 sec)
MariaDB [BidvestBank]> Select branchName, max(assets) from BankBranch ;
 branchName | max(assets)
 Amanzintoti | 9000000 |
 ------
 row in set (0.00 sec)
MariaDB [BidvestBank]> 🕳
```

## Question5

```
MySQL Client (MariaDB 10.2 (x64)) - "C:\Program Files\MariaDB 10.2\bin\mysql.exe" "--defaults-file=C\Program Files\MariaDB 10.2\data\my.ini" -uroot -p
                                                                                                                                                                     0 >
MariaDB [BidvestBank]> Select employeeName from Employee where branchName = "Sunnyside";
 employeeName
 Modise
 Brown
 Gopal
 rows in set (0.00 sec)
MariaDB [BidvestBank]> Select * from Borrower;
 customerName | loanNumber |
 Modise
                L-16
                L-93
 Jooste
 Johnson
                L-15
                 L-14
 Jackson
                 L-17
 Zwane
 Smith
                 L-11
 Smith
                L-23
 Williams
                L-17
 rows in set (0.00 sec)
MariaDB [BidvestBank]> Select accountNumber from CustomerAccount where balance > 900;
Empty set (0.00 sec)
MariaDB [BidvestBank]> Select accountNumber,balance from CustomerAccount where branchName="Newtown" and balance >600;
Empty set (0.00 sec)
MariaDB [BidvestBank]> Select branchName,assets from BankBranch;
 branchName | assets
 Amanzintoti | 300000
                3700000
 Belgravia
 Mamelodi
                8000000
 Mapobane
                4000000
 Midrand
                7100000
                9000000
 Newtown
                1700000
 Sunnyside
 Universitas | 2100000
 rows in set (0.06 sec)
```