Question 1

```
mysql> create database BidvestBank;
Query OK, 1 row affected (0.23 sec)
nysql>
nysql> use BidvestBank;
Database changed
mysql>
mysql> create table CustomerAccount(
    -> account_Number char(6) not null primary key,
    -> branch_name varchar(20) not null,
    -> balance double);
Query OK, 0 rows affected (0.76 sec)
nysql>
nysql> create table Loan(
-> Loan_number char(4) not null primary key,
-> branch_name varchar(20),
-> amount double
->);
Query OK, 0 rows affected (0.68 sec)
mysql> create table BankBranch(
    -> branch_name varchar(20) not null primary key,
    -> branch_city varchar(50) not null,
    -> assets double
    ->);
Query OK, 0 rows affected (0.40 sec)
mysql> create table Depositor(
-> customer_name varchar(50) not null,
-> account_Number char(6) not null
-> accourre_rams
-> );
Query OK, 0 rows affected (0.49 sec)
mysql> create table Borrower(
                 customer_name varchar(50) not null,
       -> L
-> );
                 Loan_number char(4) not null
Query OK, 0 rows affected (0.83 sec)
mysql> create table Employee(
               Employee_name varchar(50) not null,
branch_name varchar(50),
        ->
-> );
                 salary double
Query OK, O rows affected (0.57 sec)
mysql>
```

Question 3

```
mysql> insert into Depositor values('Johnson','A-5624');
Query OK, 1 row affected (0.08 sec)
mysql> insert into Depositor values('Johnson','A-5624');
Query OK, 1 row affected (0.07 sec)
mysql> insert into Depositor values('Johnson','A-7794'); Query OK, 1 row affected (0.07 sec)
mysql> insert into Depositor values('Zwane','A-3546');
Query OK, 1 row affected (0.04 sec)
mysql> insert into Depositor values('Lindsay','A-3453');
Query OK, 1 row affected (0.07 sec)
mysql> insert into Depositor values('Smith','A-4467');
Query OK, 1 row affected (0.06 sec)
mysql> insert into Depositor values('Dlamini','A-2542');
Query OK, 1 row affected (0.05 sec)
mysql>
mysql> insert into Loan values('L-11','Mamelodi',900);
Query OK, 1 row affected (0.04 sec)
mysql> insert into Loan values('L-14','Newtown',1500);
Query OK, 1 row affected (0.06 sec)
mysql> insert into Loan values('L-15','Sunnyside',1500);
Query OK, 1 row affected (0.06 sec)
mysql> insert into Loan values('L-16','Sunnyside',1300);
Query OK, 1 row affected (0.06 sec)
mysql> insert into Loan values('L-17','Newtown',1000);
Query OK, 1 row affected (0.08 sec)
mysql> insert into Loan values('L-23','Universitas',2000);
Query OK, 1 row affected (0.06 sec)
mysql> insert into Loan values('L-93','Mabopane',500);
Query OK, 1 row affected (0.05 sec)
mysql> insert into CustomerAccount values('A-5324','Newtown',500);
Query OK, 1 row affected (0.13 sec)
mysql> insert into CustomerAccount values('A-5624','Sunnyside',400); Query _{
m OK}, 1 row affected (0.13 sec)
mysql> insert into CustomerAccount values('A-7794','Midrand',900);
Query OK, 1 row affected (0.05 sec)
mysql> insert into CustomerAccount values('A-4467','Mabopane',700);
Query OK, 1 row affected (0.06 sec)
mysql> insert into CustomerAccount values('A-3546','Midrand',750);
Query OK, 1 row affected (0.05 sec)
mysql> insert into CustomerAccount values('A-3453','Universitas',700); _{\rm Query~OK,~1} row affected (0.09 sec)
mysql> insert into CustomerAccount values('A-2542','Mamelodi',350);
Query OK, 1 row affected (0.07 sec)
mysql>
mysql> insert into BankBranch values('Midrand','Johannesburg',7100000);
Query OK, 1 row affected (0.05 sec)
 mysql> insert into BankBranch values('Newtown','Johannesburg',9000000); Query 0K, 1 row affected (0.07~{\rm sec})
mysql> insert into BankBranch values('Mabopane','Pretoria',4000000);
Query OK, 1 row affected (0.08 sec)
mysql> insert into BankBranch values('Belgravia','Kimberly',3700000);
Query OK, 1 row affected (0.05 sec)
mysql> insert into BankBranch values('Sunnyside','Pretoria',1700000);
Query OK, 1 row affected (0.05 sec)
mysql> insert into BankBranch values('Amanzimtoti','Durban',3000000);
Query OK, 1 row affected (0.10 sec)
 nysql> insert into BankBranch values('Universitas','Bloemfontein',2100000);
Query OK, 1 row affected (0.07 sec)
```

```
mysql> insert into Customer values('Modise','Spring','George');
Query OK, 1 row affected (0.11 sec)
mysql> insert into Customer values('Brooks','Senator','Johannesburg');
Query OK, 1 row affected (0.04 sec)
mysql> insert into Customer values('Jooste','North','Kimberly');
Query OK, 1 row affected (0.08 sec)
mysql> insert into Customer values('Lombard','Sand Hill','Nelspruit');
Query OK, 1 row affected (0.06 sec)
mysql> insert into Customer values('Mokwena','Walnur','Port-Elizabeth');
Query OK, 1 row affected (0.09 sec)
mysql> insert into Customer values('Johnson','Mmabatho','Mafikeng'); {
m Query} \ {
m OK}, \ 1 \ {
m row} \ {
m affected} \ (0.09 \ {
m sec})
mysql> insert into Customer values('Johnson','Alma','Bloemfontein');
Query OK, 1 row affected (0.06 sec)
mysql> insert into Customer values('Zwane','Maln','Mafikeng');
Query OK, 1 row affected (0.07 sec)
mysql> insert into Customer values('Lindsay','Park','George');
Query OK, 1 row affected (0.07 sec)
mysql> insert into Customer values('Smith','North','Kimberly');
Query OK, 1 row affected (0.08 sec)
mysql> insert into Customer values('Dlamini','Putman','Port-Elizabeth');
Query OK, 1 row affected (0.09 sec)
mysql> insert into Customer values('Williams','Nassau','Giyane');
Query OK, 1 row affected (0.08 sec)
mysql> insert into Borrower values('Modise','L-16');
Query OK, 1 row affected (0.05 sec)
mysql> insert into Borrower values('Jooste','L-93');
Query OK, 1 row affected (0.06 sec)
mysql> insert into Borrower values('Johnson','L-15');
Query OK, 1 row affected (0.06 sec)
mysql> insert into Borrower values('Jackson','L-14');
Query OK, 1 row affected (0.27 sec)
mysql> insert into Borrower values('Zwane','L-17');
Query OK, 1 row affected (0.06 sec)
mysql> insert into Borrower values('Smith','L-11');
Query OK, 1 row affected (0.07 sec)
mysql> insert into Borrower values('Smith','L-23');
Query OK, 1 row affected (0.09 sec)
mysql> insert into Borrower values('Williams','L-17');
Query OK, 1 row affected (0.14 sec)
```

Question.4 & 5

```
nysql> Select account_Number From CustomerAccount
-> Where balance < 700;
  account Number
  A-2542
A-5324
A-5624
  rows in set (0.00 sec)
mysql>
mysql> Select customer_name From Customer
-> Where customer_city = 'Johannesburg';
 customer_name
  Brooks
 row in set (0.00 sec)
mysql>
mysql> Select Employee_name From Employee
-> Where salary < 1500 AND branch_name <> 'Newtown';
  Employee_name
  Brown
  row in set (0.00 sec)
mysql>
mysql> Select AVG(salary) FROM Employee;
  AVG(salary)
         2062.5
 row in set (0.01 sec)
mysql>
mysql> Select branch_name
-> From BankBranch
-> Order by assets DESC
-> limit 1;
  branch_name
 Newtown
 row in set (0.00 sec)
mysql>
nysq1>
nysq1> Select Employee_name
-> FROM Employee
-> Where branch_name = 'Sunnyside';
 Employee_name
  Modise
  Brown
Gopal
  rows in set (0.00 sec)
mysql>
mysql> Select * from Borrower;
  customer_name | Loan_number
                         L-16
L-93
L-15
L-14
L-17
L-11
L-23
L-17
  Modise
  Jooste
  Johnson
  Jackson
  Zwane
Smith
Smith
Williams
  rows in set (0.00 sec)
```