

Screenshots

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MAGOPA R.M 30381908

```
mysql> Create Database BidvestBank;
 Query OK, 1 row affected (0.01 sec)
mysql> use BidvestBank;
Database changed
 mysql> create Table CustomerAccount(
        -> account_number char(10) not null primary key,
        -> branch_name varchar(20),
        -> balance double
-> );
Query OK, 0 rows affected (0.06 sec)
 mysql> insert into CustomerAccount( account_number, branch_name, balance)
        -> VALUES
        -> ('A-5324',
-> ('A-5624',
-> ('A-7794',
-> ('A-4467',
-> (A-3524 , 'Newtown', 500),
-> ('A-5624', 'Sunnyside', 400),
-> ('A-7794', 'Midrand', 900),
-> ('A-4467', 'Mabopane', 700),
-> ('A-3548', 'Midrand', 750),
-> ('A-3453', 'Universitas', 700),
-> ('A-2542', 'Mamelodi', 350);
Query OK, 7 rows affected (0.01 sec)
Records: 7 Duplicates: 0 Warnings: 0
                                   'Newtown', 500)
'Sunnyside', 40
 mysql> create Table BankBranch(
         -> branch_name varchar(20) not null primary key,
-> branch_city_varchar(20),
         -> assets double
          -> );
 Query OK, O rows affected (0.06 sec)
 mysql> insert into BankBranch( branch_name,branch_city,assets)
          -> VALUES
-> VALUES
-> ('Midrand', 'Johannesburg', 7100000),
-> ('Newtown', 'Johannesburg', 9000000),
-> ('Mabopane', 'Pretoria', 400000),
-> ('Belgravia', 'Kimberly', 3700000),
-> ('Sunnyside', 'Pretoria', 1700000),
-> ('Amanzimtoti', 'Durban', 300000),
-> ('Universitas', 'Bloemfontein', 210000),
-> ('Mamelodi', 'Pretoria', 80000000);

Query OK, 8 rows affected (0.01 sec)

Records: 8 Duplicates: 0 Warnings: 0
```

```
mysql> create Table Customer(
        -> customer_name varchar(20),
-> customer_street varchar(20) not null primary key,
              customer_city varchar(20)
Query OK, 0 rows affected (0.06 sec)
mysql> insert into Customer(customer_name,customer_str<u>eet,customer_city)</u>
-> VALUES
-> (' Modise', 'Spring', 'Gearge'),
-> ('Brooks', 'Senator', 'Johannesburg'),
-> ('Jooste ', 'North ', 'Kimberly'),
-> ('Lombard', 'Sand Hiu', 'Nelspruit'),
-> (' Mokwena', 'Walnut', 'Port-Elizabeth '),
-> (' Johnson', 'Mmabatho', 'Mafikeng'),
-> (' Johnson', 'Alma', 'Bloemfontein'),
-> (' Zwane', 'Main', 'Mafikeng'),
-> ('Lindsay', 'Park', 'George'),
-> ('Smith', 'North', 'Kimberly'),
-> ('Dlamini', 'Putnam', 'Port-Elizabeth'),
-> ('Williams', 'Nassau', 'Giyane');
Query OK, 12 rows affected (0.01 sec)
Records: 12 Duplicates: 0 Warnings: 0
      -> VALUES
mysql> create Table Depositor(
        -> customer_name varchar(20),
              account_number char(20) not null primary key
Query OK, O rows affected (0.04 sec)
mysql> insert into Depositor(customer_name,account_number)
        -> VALUES
        -> ('Johnson',
                                       'A-5624'),
        -> ('Johnson',
                                       'A-5664')
        -> ('Johnson', 'A-7794'),

-> ('Zwane', 'A-3546'),

-> ('Lindsay', 'A-3453'),
                                 'A-4467')
        -> ('Smith', 'A-4467'),
-> ('Dlamini', 'A-2542'
Query OK, 7 rows affected (0.01 sec)
Records: 7 Duplicates: 0 Warnings: 0
```

```
mysql> create Table Loan(
    -> loan_number char(20) not null primary key,
    -> branch_name varchar(20),
    -> amount double
    -> );
Query OK, 0 rows affected (0.10 sec)

mysql> insert into Loan(loan_number, branch_name, amount)
    -> VALUES
    -> ('L-11', 'Mamelodi ', 900),
    -> ('L-14', 'Newtown', 1500),
    -> ('L-15', 'Sunnyside ', 1500),
    -> ('L-16', 'Sunnyside', 1300),
    -> ('L-17', 'Newtown', 1000),
    -> ('L-23', 'Universitas ', 2000),
    -> ('L-93', 'Mabopane', 500);
Query OK, 7 rows affected (0.01 sec)
Records: 7 Duplicates: 0 Warnings: 0
```

```
mysql> create Table Borrower(
-> customer_name varchar(20),
-> loan_number char(20) not null primary key
-> );
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> insert into Borrower(customer_name, loan_number)
-> VALUES
-> ('Modise', 'L-16'),
-> ('Jooste', 'L-93'),
-> ('Johnson', 'L-15'),
-> ('Jackson', 'L-14'),
-> ('Zwane', 'L-17'),
-> ('Smith', 'L-11'),
-> ('Smith', 'L-18');
Query OK, 8 rows affected (0.01 sec)
Records: 8 Duplicates: 0 Warnings: 0

mysql> create Table Employee(
-> employee_name varchar(20) not null primary key,
-> branch_name char(20),
-> salary double
-> );
Query OK, 0 rows affected (0.06 sec)

mysql> insert into Employee(employee_name, branch_name, salary)
-> VALUES
-> ('Modise', 'Sunnyside', 1500),
-> ('Brown', 'Sunnyside', 1500),
-> ('Gopal', 'Sunnyside', 1300),
-> ('Johnson', 'Newtown', 1500),
-> ('Loreena', 'Newtown', 1500),
-> ('Peterson', 'Newtown', 2500),
-> ('Rao', 'Austin', 1500),
-> ('Sato', 'Austin', 1600);
Query OK, 8 rows affected (0.01 sec)
Records: 8 Duplicates: 0 Warnings: 0
```

```
mysql> select * from CustomerAccount;
                                  balance
  account_number
                   branch_name
  A-2542
                    Mamelodi
                                       350
  A-3453
                                       700
                    Universitas
  A-3548
                    Midrand
                                       750
                                       700
500
  A-4467
                    Mabopane
  A-5324
                    Newtown
  A-5624
                    Sunnyside
                                       400
  A-7794
                    Midrand
                                       900
 rows in set (0.01 sec)
mysql> select * from BankBranch;
  branch_name | branch_city
                                assets
  Amanzimtoti
                Durban
                                  300000
  Belgravia
                Kimberly
                                3700000
                                 400000
  Mabopane
                Pretoria
  Mamelodi
                                8000000
                Pretoria
                 Johannesburg
                                 7100000
  Midrand
                                9000000
  Newtown
                 Johannesburg
  Sunnyside
                Pretoria
                                1700000
                Bloemfontein
                                  210000
  Universitas
8 rows in set (0.00 sec)
```

```
mysql> select * from Customer;
                  customer_street | customer_city
  customer_name |
                                      Bloemfontein
                   Alma
   Johnson
                  Main
                                     Mafikeng
   Zwane
   Johnson
                  Mmabatho
                                     Mafikeng
  Williams
                  Nassau
                                      Giyane
   Smith
                  North
                                      Kimberly
                  North
  Jooste
                                      Kimberly
  Lindsay
                  Park
                                      George
  Dlamini
                  Putnam
                                      Port-Elizabeth
                  Sand Hiu
  Lombard
                                     Nelspruit
  Brooks
                  Senator
                                      Johannesburg
   Modise
                  Spring
                                     Gearge
   Mokwena
                  Walnut
                                     Port-Elizabeth
12 rows in set (0.00 sec)
mysql> select * from Depositor;
 customer_name | account_number
                   A-2542
  Dlamini
                  A-3453
  Lindsay
                  A-3546
A-4467
  Zwane
  Smith
                  A-5624
  Johnson
                  A-5664
  Johnson
                  A-7794
  Johnson
 rows in set (0.00 sec)
```

```
mysql> select * from Loan;
  loan_number
                branch_name
                                 amount
   L - 93
                 Mabopane
                                    500
  L-11
                Mamelodi
                                    900
                                   1500
  L-14
                 Newtown
  L-15
                                   1500
                 Sunnyside
                                   1300
  L-16
                 Sunnyside
                                   1000
  L-17
                 Newtown
  L-23
                                   2000
                 Universitas
 rows in set (0.00 sec)
mysql> select * from Borrower;
  customer_name | loan_number
  Smith
                   L-11
  Jackson
                   L-14
  Johnson
                   L-15
                   L-16
  Modise
                   L-17
  Zwane
  Williams
                   L-18
  Smith
                   L-23
                   L-93
  Jooste
8 rows in set (0.00 sec)
mysql> select * from Employee;
 employee_name
                 | branch_name
                                  salary
                                    5300
   Gopal
                   Sunnyside
  Brown
                   Sunnyside
                                    1300
  Johnson
                                    1500
                   Newtown
                                    1300
 Loreena
                   Newtown
                                    1500
 Modise
                   Sunnyside
                                    2500
1500
  Peterson
                   Newtown
                   Austin
  Rao
  Sato
                   Austin
                                    1600
```

ANSWERS TO QUESTIONS GIVEN

4. i) Find all customer accounts whose balance is smaller than R700.

- ii) Find all names of customers whose city is in Johannesburg.
- iii) Find all employees whose salary is greater than R1500 and working branch is not Newtown.

iv) Calculate the average salary of all employees and show the average salary as "avg_salary"

v) Display the bank with the largest number of Assets.

- 5. i) Display the names of all employees who work in Sunnyside branch.
 - ii) Display the borrower table.
 - iii) Find the account number for all accounts where the balance is greater than R900.
- iv) Find the account number and balance for all accounts from Newtown where the balance is greater than R600.

```
mysql> select * from Employee where branch_name = 'Sunnyside';
                    branch_name
                                     salary
  employee_name
                                       5300
1300
   Gopal
                    Sunnyside
                    Sunnyside
  Brown
  Modise
                    Sunnyside
                                       1500
3 rows in set (0.00 sec)
mysql> select * from Borrower;
                   loan_number
  customer_name |
                    L-11
  Smith
  Jackson
                    L-14
                      -15
  Johnson
                      -16
  Modise
  Zwane
  Williams
Smith
                       18
                       23
                       93
  Jooste
 rows in set (0.00 sec)
mysql> select * from CustomerAccount where balance > 900;
Empty set (0.00 sec)
mysql> select * from CustomerAccount where Branch_name = 'Newtown'
and balance > 600;
Empty set (0.00 sec)
```

v) Display the branch name and assets from all branches.

```
mysql> select branch_name , assets from BankBranch;
 branch_name |
                assets
 Amanzimtoti
                 300000
                3700000
 Belgravia
                 400000
 Mabopane
 Mamelodi
                8000000
 Midrand
                7100000
                9000000
 Newtown
                1700000
 Sunnyside
                 210000
 Universitas
 rows in set (0.00 sec)
mysql>
```