L. N MOFOKENG

27815889

ASSIGNMENT 1

SCREENSHOTS

```
Enter password: *******
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 3
Server version: 5.5.16 MySQL Community Server (GPL)
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affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> create database BidvestBank;
ERROR 1007 (HY000): Can't create database 'bidvestbank'; database exists mysql> use BidvestBank;
Database changed
mysql> create table BankBranch(
    -> branch_name varchar(200) not null primary key,
-> branch_city varchar(200),
     -> assets char(100)
ERROR 1050 (42501): Table 'bankbranch' already exists
mysql> "C:\Program Files\MySQL\MySQL Server 8.0\bin\mysqld.exe" "--defaults-file=C:\ProgramData\MySQL\My
SQL Server 8.0\my.ini"
mysql> desc BankBranch;
  Field
                                 | Null | Key
                                                | Default | Extra
                 Type
  branch_name
                  varchar(10)
                                           PRI
                                                  NULL
                  varchar(10)
varchar(10)
  branch_city
                                   YES
                                                  NULL
  assets
                                   YES
                                                  NULL
3 rows in set (4.24 sec)
mysql> alter table BankBranch modify branch_name varchar(200),
    -> modify branch_city varchar(200),
-> modify assets char(100);
Query OK, 0 rows affected (1.49 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc Customer;
 Field
                                | Null | Key | Default | Extra
                   Type
                   varchar(10)
 customer name
                               NO
                                        PRI
                                              NULL
 customer street
                   varchar(10)
                                 YES
                                              NULL
 customer_city
                   varchar(10) | YES
                                              NULL
 rows in set (0.69 sec)
mysql> alter table Customer modify customer_name varchar(200),
   -> modify customer_street varchar(200),
   -> modify customer_city varchar(200);
Query OK, 0 rows affected (1.40 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc CustomerAccount;
 Field
                Type
                             | Null | Key | Default | Extra
 account name
                char(5)
                              NO
                                     PRI
                                            NULL
 branch_name
                varchar(10)
                              YES
                                            NULL
 balance
                double
                                           NULL
 rows in set (0.44 sec)
mysql> alter table CustomerAccount modify account_name char(100),
   -> modify branch_name varchar(200);
Query OK, 0 rows affected (0.75 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc Loan;
 Field
                            | Null | Key | Default | Extra
              Type
 loan number
               char(5)
                                    PRI
                                          NULL
                             YES
 branch_name
               varchar(10)
                                          NULL
               double
                             YES
 amount
                                          NULL
 rows in set (0.65 sec)
```

```
mysql> alter table Loan modify branch_name varchar(200);
Query OK, 0 rows affected (0.37 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc Depositor;
  Field
                                 | Null | Key | Default | Extra
                  Type
  customer name | varchar(10) |
                                  YES
                                                 NULL
  account_name | char(5)
                                   YES
                                                 NULL
2 rows in set (0.66 sec)
mysql> alter table Depositor modify customer_name varchar(200),
    -> modify account_name char(100);
Query OK, 0 rows affected (0.39 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc Borrower;
  Field
                                 | Null | Key | Default | Extra
  customer_name | varchar(10) |
                                   YES
                                                 MHH
  loan_number
                   char(5)
                                   YES
                                                 NULL
2 rows in set (0.33 sec)
mysql> alter table Borrower modify customer-name varchar(200);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQ
L server version for the right syntax to use near '-name varchar(200)' at line 1
mysql> alter table Borrower modify customer_name varchar(200);
Query OK, 0 rows affected (0.42 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc Employee;
                                 | Null | Key | Default | Extra
  Field
                   Type
                   varchar(10) | NO
  employee name
                                           PRI
                                                 NULL
                   varchar(10)
  branch_name
                                   YES
                                                 NULL
                   double
  salary
                                   YES
                                                 NULL
```

```
mysql> alter table Employee modify branch_name varchar(200);
Query OK, 0 rows affected (0.53 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc Employee;
 Field
                               | Null | Key | Default | Extra
                 Type
 employee name
                 varchar(10)
                                NO
                                       PRI
                                             NULL
                 varchar(200)
                                YES
 branch name
                                             NULL
 salary
                 double
                                YES
                                             NULL
 rows in set (0.11 sec)
```

```
mysql> use BidvestBank;
 Database changed
 mysal> desc Customer;
                                                                  | Null | Key | Default | Extra |
    Field
                                    Type
                                    | varchar(200) | NO
| varchar(200) | YES
    customer name
    customer_street | varchar(200)
                                                                                              NULL
    customer_city | varchar(200) | YES
                                                                                            NULL
 3 rows in set (0.95 sec)
mysql> insert into Customer values('Modise','Spring','George'),
    -> ('Brooks','Senator','JOhannesburg'),
    -> ('Jooste','North','Kimberly'),
    -> ('Lombard','Sand Hill','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');
ERROR 1062 (23000): Duplicate entry 'Johnson' for key 'PRIMARY'
mysql> alter table Customer drop primary key;
 mysql> alter table Customer drop primary key;
 Query OK, 0 rows affected (1.72 sec)
Records: 0 Duplicates: 0 Warnings: 0
 mysql> desc Customer;
                                                                  | Null | Key | Default | Extra |
    Field
                                     Type
    customer name
                                    | varchar(200) | NO
     customer_street | varchar(200)
                                                                                              NULL
    customer_city | varchar(200) | YES
                                                                                              NULL
 3 rows in set (0.47 sec)
```

```
mysql> insert into Customer values('Modise','Spring','George'),
    -> ('Brooks','Senator','Johannesburg'),
    -> ('Jooste','North','Kimberly'),
    -> ('Lombard','Sand Hill','Nelspruit'),
    -> ('Mokwena','Walnut','Port-Elizabeth'),
    -> ('Johnson','Mmabatho','Mafikeng'),
    -> ('Johnson','Alma','Bloemfontein'),
    -> ('Zwane','Main','Mafikeng'),
    -> ('Lindsay','Park','George'),
    -> ('Smith','North','Kimberly'),
    -> ('Olamini','Putnam','Port-Elizabeth'),
    -> ('Williams','Nassau','Giyane');
Query OK, 12 rows affected (2.84 sec)
Records: 12 Duplicates: 0 Warnings: 0
```

```
mysql> use BidvestBank;
Database changed
mysql> insert into Depositor values('Johnson','A-5624'),
     -> ('Johnson','A-5624'),
-> ('Johnson','A-7794'),
     -> ('Zwane','A-3546'),
     -> ('Lindsay','A-3453'),
     -> ('Smith', 'A-4467'),
     -> ('Dlamini', 'A-2542');
Query OK, 7 rows affected (0.63 sec)
Records: 7 Duplicates: 0 Warnings: 0
mysql> insert into Loan values('L-11','Mamelodi',900),
    -> ('L-14','Newtown',1500),
-> ('L-15','Sunnyside',1500),
-> ('L-16','Sunnyside',1300),
-> ('L-17','Newtown',1000),
-> ('L-23','Unversitas',2000),
     -> ('L-93', 'Mabopane', 500);
Query OK, 7 rows affected (0.44 sec)
Records: 7 Duplicates: 0 Warnings: 0
mysql> insert into Borrower values('Modise','L-16'),
    -> ('Jooste','L-93'),
-> ('Johnson','L-15'),
-> ('Jackson','L-14'),
-> ('Zwane','L-17'),
-> ('Smith','L-11'),
-> ('Smith','L-23'),
     -> ('Williams','L-17');
Query OK, 8 rows affected (1.05 sec)
Records: 8 Duplicates: 0 Warnings: 0
mysql> insert into Employee values('Modise','Sunnyside',1500),
     -> ('Brown', 'Sunnyside', 1300),
     -> ('Gopal', 'Sunnyside', 5300),
    -> ('Johnson','Newtown',1500),
-> ('Loreena','Newtown',1300),
     -> ('Peter','Newtown',2500),
-> ('Rao','Austin',1500),
     -> ('Sato','Austin',1600);
Query OK, 8 rows affected (0.20 sec)
Records: 8 Duplicates: 0 Warnings: 0
```

```
mysql> select * from CustomerAccount where balance < 700;
+----+
account_name | branch_name | balance |
A-2542 | Mamelodi | 350 |
A-5324 | Newtown | 500 |
A-5624 | Sunnyside | 400 |
3 rows in set (1.57 sec)
mysql> select * from Customer where customer name = 'Johannesburg';
Empty set (0.14 sec)
mysql> select * from Customer where customer city = 'Johannesburg';
 customer_name | customer_street | customer_city |
| Brooks | Senator | Johannesburg |
1 row in set (0.01 sec)
mysql> select * from Empoyee where salary > 1500
   -> and branch_name != 'Newtown';
ERROR 1146 (42S02): Table 'bidvestbank.empoyee' doesn't exist
mysql> select * from Employee where salary > 1500
   -> and branch_name != 'Newtown';
 employee name | branch name | salary |
+-----+
2 rows in set (0.08 sec)
mysql> select avg(salary) from Employee;
 avg(salary) |
   2062.5
1 row in set (0.09 sec)
```

```
mysql> select * from BankBranch order by -assets limit 1
  branch_name | branch_city | assets |
  Newtown | Johannesburg | 9000000 |
1 row in set (0.22 sec)
mysql> select * from Employee where branch_name = 'Sunnyside';
 employee_name | branch_name | salary |
 Brown | Sunnyside | 1300 |
Gopal | Sunnyside | 5300 |
Modise | Sunnyside | 1500 |
3 rows in set (0.06 sec)
mysql> desc Borrower;
Field | Type | Null | Key | Default | Extra |
 customer_name | varchar(200) | YES | NULL
loan_number | char(5) | YES | NULL
2 rows in set (1.70 sec)
mysql> select * CustomerAccount where balance > 900;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your
MySQL server version for the right syntax to use near 'CustomerAccount where balance > 900' at line
mysql> select * from CustomerAccount where balance > 900;
Empty set (0.07 sec)
mysql> select * from CustomerAccount where branch_name = 'Newtown'
 -> and balance > 600;
Empty set (0.00 sec)
```

```
mysql> desc BankBranch;
                             | Null | Key | Default | Extra
 Field
               Type
 branch_name
               varchar(200)
                              NO
                                      PRI
               varchar(200)
                              YES
 branch_city |
                                            NULL
                              YES
 assets
               char(100)
                                            NULL
 rows in set (0.23 sec)
mysql> select * from Borrower;
 customer_name | loan_number
 Modise
                 L-16
                 L-93
 Jooste
 Johnson
                 L-15
                 L-14
 Jackson
 Zwane
                 L-17
 Smith
                 L-11
 Smith
                 L-23
 Williams
                 L-17
 rows in set (0.04 sec)
mysql> select * from BankBranch;
 branch_name | branch_city
                             assets
 Amanzimtoti
               Durban
                               300000
 Belgravia
               Kimberly
                               3700000
 Mabopane
               Pretoria
                              400000
 Mamelodi
               Pretoria
                              8000000
 Midrand
               Johannesburg
                               7100000
 Newtown
                Johannesburg
                               9000000
 Sunnyside
               Pretoria
                               1700000
 Unversitas
               Bloemfontein
                              2100000
 rows in set (0.00 sec)
```