









Microsoft Windows [Version 10.0.18362.657]

(c) 2019 Microsoft Corporation. All rights reserved.

C:\Program Files\MySQL\MySQL Server 8.0\bin>

C:\Program Files\MySQL\MySQL Server 8.0\bin>-u root -p

'-u' is not recognized as an internal or external command,

operable program or batch file.

C:\Program Files\MySQL\MySQL Server 8.0\bin>msql -u root -p

'msql' is not recognized as an internal or external command,

operable program or batch file.

C:\Program Files\MySQL\MySQL Server 8.0\bin>mysql -u root -p

Enter password: \*\*\*\*

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 12

Server version: 8.0.19 MySQL Community Server - GPL

Copyright (c) 2000, 2020, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its

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> show databases;

+--------------------+

| Database |

+--------------------+

| information\_schema |

| mydb |

| mysql |

| performance\_schema |

| sakila |

| sys |

| world |

+--------------------+

7 rows in set (0.02 sec)

mysql> create database BidvestBank;

Query OK, 1 row affected (0.65 sec)

mysql> use BivestBank;

ERROR 1049 (42000): Unknown database 'bivestbank'

mysql> use BidvestBank;

Database changed

mysql> create table BankBranch(

-> branch\_name varchar(20) not null primary key,

-> branch\_city varchar(20),

-> assets double);

Query OK, 0 rows affected (2.22 sec)

mysql> create table Customer(

-> customer\_name varchar(20) not null primary key,

-> customer\_street varchar(20),

-> customer\_city varchar(20));

Query OK, 0 rows affected (1.21 sec)

mysql> create table CustomerAccount(

-> account\_number varchar(10) not null primary key,

-> branch\_name varchar(20),

-> balance double);

Query OK, 0 rows affected (2.75 sec)

mysql> create table Loan(

-> loan\_number varchar(10) not null primary key,

-> branch\_name varchar(20),

-> amount double);

Query OK, 0 rows affected (1.74 sec)

mysql> create table Depositor(

-> customer\_name varchar(30) not null primary key,

-> account\_number varchar(10));

Query OK, 0 rows affected (2.61 sec)

mysql> create table Borrower(

-> customer\_name(30) not null primary key,

-> loan\_number varchar(10));

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 '(30) not null primary key,

loan\_number varchar(10))' at line 2

mysql> create table Borrower(

-> customer\_name varchar(30) not null primary key,

-> loan\_number varchar(10));

Query OK, 0 rows affected (1.23 sec)

mysql> create table Employee(

-> employee\_name varchar(30) not null primary key;

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 '' at line 2

mysql> create table Employee(

-> employee\_name varchar(30) not null primary key,

-> branch\_name varchar(20),

-> salary double);

Query OK, 0 rows affected (1.54 sec)

mysql> insert CustomerAccount values(

-> 'A-5324', 'Newtown', 500);

Query OK, 1 row affected (0.25 sec)

mysql> insert CustomerAccount values('A-5624', 'Sunnyside', 400);

Query OK, 1 row affected (0.27 sec)

mysql>

mysql> insert CustomerAccount values('A-7794', 'Midrand', 900);

Query OK, 1 row affected (0.21 sec)

mysql> insert CustomerAccount values('A-4467', 'Mabopane', 700);

Query OK, 1 row affected (0.16 sec)

mysql> insert CustomerAccount values('A-3546', 'Midrand', 700);

Query OK, 1 row affected (0.11 sec)

mysql> insert CustomerAccount values('A-3453', 'Universitas', 700);

Query OK, 1 row affected (0.15 sec)

mysql> insert CustomerAccount values('A-2542', 'Mamelodi', 350);

Query OK, 1 row affected (0.13 sec)

mysql> selet \* from CustomerAccount;

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 'selet \* from CustomerAccount' at line 1

mysql> select \* from CustomerAccount;

+----------------+-------------+---------+

| account\_number | branch\_name | balance |

+----------------+-------------+---------+

| A-2542 | Mamelodi | 350 |

| A-3453 | Universitas | 700 |

| A-3546 | Midrand | 700 |

| A-4467 | Mabopane | 700 |

| A-5324 | Newtown | 500 |

| A-5624 | Sunnyside | 400 |

| A-7794 | Midrand | 900 |

+----------------+-------------+---------+

7 rows in set (0.00 sec)

mysql> update customeraccount set balance = 750 where account\_number = 'A-3546';

Query OK, 1 row affected (0.14 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from customeraccount;

+----------------+-------------+---------+

| account\_number | branch\_name | balance |

+----------------+-------------+---------+

| A-2542 | Mamelodi | 350 |

| A-3453 | Universitas | 700 |

| A-3546 | Midrand | 750 |

| A-4467 | Mabopane | 700 |

| A-5324 | Newtown | 500 |

| A-5624 | Sunnyside | 400 |

| A-7794 | Midrand | 900 |

+----------------+-------------+---------+

7 rows in set (0.00 sec)

mysql> insert BankBranch('Midrand' 'Johannesburg' 7100000);

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 ''Midrand' 'Johannesburg' 7100000)' at line 1

mysql> insert BankBranch('Midrand', 'Johannesburg', 7100000);

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 ''Midrand', 'Johannesburg', 7100000)' at line 1

mysql> insert into bankbranch(

-> 'midrand', 'johannesburg', 7100000);

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 ''midrand', 'johannesburg', 7100000)' at line 2

mysql> insert bankbranch values('midrand', 'johannesburg', 7100000);

Query OK, 1 row affected (0.09 sec)

mysql> insert bankbranch values('Newtown','Johannesburg',9000000);

Query OK, 1 row affected (0.19 sec)

mysql> insert bankbranch values('Mabopane','Pretoria',400000);

Query OK, 1 row affected (0.17 sec)

mysql> insert bankbranch values('Belgravia','Kimberly',3700000);

Query OK, 1 row affected (0.14 sec)

mysql> insert bankbranch values('Sunnyside','Pretoria',1700000);

Query OK, 1 row affected (0.13 sec)

mysql> insert bankbranch values('Amanzimtoti','Durban',300000);

Query OK, 1 row affected (0.12 sec)

mysql> insert bankbranch values('Unversitas','Bloemfontein',2100000);

Query OK, 1 row affected (0.10 sec)

mysql> insert bankbranch values('Mamelodi','Pretoria',8000000);

Query OK, 1 row affected (0.09 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 |

+-------------+--------------+---------+

8 rows in set (0.00 sec)

mysql> insert customer values('Modise','Springs','George');

Query OK, 1 row affected (0.26 sec)

mysql> insert customer values('Brooks','Senator','George');

Query OK, 1 row affected (0.23 sec)

mysql> insert customer values('Jooste','North','Kimberly');

Query OK, 1 row affected (0.12 sec)

mysql> insert customer values('Lombard','Sand Hill','Nelspruit');

Query OK, 1 row affected (0.17 sec)

mysql> insert customer values('Mokwena','Walnut','Port-Elizabeth');

Query OK, 1 row affected (0.11 sec)

mysql> insert customer values('Johnson','Mmabatho','Mafikeng');

Query OK, 1 row affected (0.13 sec)

mysql> insert customer values('Johson','Alma','Bloemfoutein');

Query OK, 1 row affected (0.16 sec)

mysql> insert customer values('Zwane','Main','Mafikeng');

Query OK, 1 row affected (0.17 sec)

mysql> insert customer values('Lindsay','Park','George');

Query OK, 1 row affected (0.12 sec)

mysql> insert customer values('Smith','North','Kimberly');

Query OK, 1 row affected (0.10 sec)

mysql> insert customer values('Dlamini','Putnam','Port-Elizabeth');

Query OK, 1 row affected (0.21 sec)

mysql> insert customer values('Williams','Nassau','Giyane');

Query OK, 1 row affected (0.10 sec)

mysql> select \* from customer;

+---------------+-----------------+----------------+

| customer\_name | customer\_street | customer\_city |

+---------------+-----------------+----------------+

| Brooks | Senator | George |

| Dlamini | Putnam | Port-Elizabeth |

| Johnson | Mmabatho | Mafikeng |

| Johson | Alma | Bloemfoutein |

| Jooste | North | Kimberly |

| Lindsay | Park | George |

| Lombard | Sand Hill | Nelspruit |

| Modise | Springs | George |

| Mokwena | Walnut | Port-Elizabeth |

| Smith | North | Kimberly |

| Williams | Nassau | Giyane |

| Zwane | Main | Mafikeng |

+---------------+-----------------+----------------+

12 rows in set (0.00 sec)

mysql> insert depositor values('Johnson', 'A-5654');

Query OK, 1 row affected (0.12 sec)

mysql> insert depositor values('Johson', 'A-5624');

Query OK, 1 row affected (0.18 sec)

mysql> insert depositor values('Johson', '7794');

ERROR 1062 (23000): Duplicate entry 'Johson' for key 'depositor.PRIMARY'

mysql> insert depositor values('Johnson', 'A-7794');

ERROR 1062 (23000): Duplicate entry 'Johnson' for key 'depositor.PRIMARY'

mysql> DROP TABLE DEPOSITOR;

Query OK, 0 rows affected (2.10 sec)

mysql> create table Depositor(

-> customer\_name varchar(30),

-> account\_number varchar(10));

Query OK, 0 rows affected (0.61 sec)

mysql> insert depositor values('Johnson', 'A-5624');

Query OK, 1 row affected (0.14 sec)

mysql> insert depositor values('Johnson', 'A-5624');

Query OK, 1 row affected (0.14 sec)

mysql> insert depositor values('Johnson', 'A-7794');

Query OK, 1 row affected (0.10 sec)

mysql> insert depositor values('Zwane', 'A-3546');

Query OK, 1 row affected (0.25 sec)

mysql> insert depositor values('Lindsay', 'A-3453');

Query OK, 1 row affected (0.12 sec)

mysql> insert depositor values('Smith', 'A-4467');

Query OK, 1 row affected (0.19 sec)

mysql> insert depositor values('Dlamini', 'A-2542');

Query OK, 1 row affected (0.10 sec)

mysql> select \* from depositor;

+---------------+----------------+

| customer\_name | account\_number |

+---------------+----------------+

| Johnson | A-5624 |

| Johnson | A-5624 |

| Johnson | A-7794 |

| Zwane | A-3546 |

| Lindsay | A-3453 |

| Smith | A-4467 |

| Dlamini | A-2542 |

+---------------+----------------+

7 rows in set (0.00 sec)

mysql> insert loan values('l-11','mamelodi',900);

Query OK, 1 row affected (0.28 sec)

mysql> insert loan values('l-14','newtown',1500);

Query OK, 1 row affected (0.23 sec)

mysql> insert loan values('l-15','sunnyside',1500);

Query OK, 1 row affected (0.09 sec)

mysql> insert loan values('l-15','sunnyside',1300);

ERROR 1062 (23000): Duplicate entry 'l-15' for key 'loan.PRIMARY'

mysql> drop table bankbranck;

ERROR 1051 (42S02): Unknown table 'bidvestbank.bankbranck'

mysql> DROP TABLE BANKBRANCH;

Query OK, 0 rows affected (1.40 sec)

mysql> create table bankbrach(create table BankBranch(

-> -> branch\_name varchar(20) not null primary key,

-> -> branch\_city varchar(20),

-> -> branch\_city varchar(20),

-> )

-> ;

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 'create table BankBranch(

-> branch\_name varchar(20) not null primary key,

' at line 1

mysql> create table bankbranch(branch\_name varchar(20),

-> branch\_city varchar(20),

-> assets double);

Query OK, 0 rows affected (0.84 sec)

mysql> select \* from bankbranch;

Empty set (0.00 sec)

mysql> insert bankbranch values('midrand', 'johannesburg',7100000);

Query OK, 1 row affected (0.13 sec)

mysql> insert bankbranch values('newtown', 'johannesburg',9000000);

Query OK, 1 row affected (0.13 sec)

mysql> insert bankbranch values('mabopane', 'pretoria',400000);

Query OK, 1 row affected (0.10 sec)

mysql> insert bankbranch values('belgravia', 'kimberly',3700000);

Query OK, 1 row affected (0.22 sec)

mysql> insert bankbranch values('sunnyside', 'pretoria',1700000);

Query OK, 1 row affected (0.36 sec)

mysql> insert bankbranch values('amanzimtoti', 'durban',300000);

Query OK, 1 row affected (0.11 sec)

mysql> insert bankbranch values('Unversitas','Bloemfontein',2100000);

Query OK, 1 row affected (0.09 sec)

mysql> insert bankbranch values('Mamelodi','Pretoria',8000000);

Query OK, 1 row affected (0.11 sec)

mysql> select \* from bankBranch;

+-------------+--------------+---------+

| branch\_name | branch\_city | assets |

+-------------+--------------+---------+

| midrand | johannesburg | 7100000 |

| newtown | johannesburg | 9000000 |

| mabopane | pretoria | 400000 |

| belgravia | kimberly | 3700000 |

| sunnyside | pretoria | 1700000 |

| amanzimtoti | durban | 300000 |

| Unversitas | Bloemfontein | 2100000 |

| Mamelodi | Pretoria | 8000000 |

+-------------+--------------+---------+

8 rows in set (0.00 sec)

mysql> insert loan values('L-11','Mamelodi', 900);

ERROR 1062 (23000): Duplicate entry 'L-11' for key 'loan.PRIMARY'

mysql> insert loan values('L-11','Mamelodi', 900);

ERROR 1062 (23000): Duplicate entry 'L-11' for key 'loan.PRIMARY'

mysql> select \* from loan;

+-------------+-------------+--------+

| loan\_number | branch\_name | amount |

+-------------+-------------+--------+

| l-11 | mamelodi | 900 |

| l-14 | newtown | 1500 |

| l-15 | sunnyside | 1500 |

+-------------+-------------+--------+

3 rows in set (0.00 sec)

mysql> alter table loan drop primary key;

Query OK, 3 rows affected (2.72 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> insert loan values('L-16','Sunnyside', 1300);

Query OK, 1 row affected (0.10 sec)

mysql> insert loan values('L-17','Newtown', 1000);

Query OK, 1 row affected (0.16 sec)

mysql> insert loan values('L-23','Universitas', 2000);

Query OK, 1 row affected (0.09 sec)

mysql> insert loan values('L-93','Mabopane', 500);

Query OK, 1 row affected (0.19 sec)

mysql> select \* from loan;

+-------------+-------------+--------+

| loan\_number | branch\_name | amount |

+-------------+-------------+--------+

| 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 |

+-------------+-------------+--------+

7 rows in set (0.02 sec)

mysql> alter table borrower drop primary key;

Query OK, 0 rows affected (3.23 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> insert borrower values('Modise','L-16');

Query OK, 1 row affected (0.06 sec)

mysql> insert borrower values('jooste','L-93');

Query OK, 1 row affected (0.17 sec)

mysql> insert borrower values('johnson','L-15');

Query OK, 1 row affected (0.07 sec)

mysql> insert borrower values('jackson','L-14');

Query OK, 1 row affected (0.11 sec)

mysql> insert borrower values('Zwane','L-17');

Query OK, 1 row affected (0.09 sec)

mysql> insert borrower values('smith','L-11');

Query OK, 1 row affected (0.15 sec)

mysql> insert borrower values('smith','L-23');

Query OK, 1 row affected (0.14 sec)

mysql> insert borrower values('williams','L-17');

Query OK, 1 row affected (0.14 sec)

mysql> select \* from borrower;

+---------------+-------------+

| customer\_name | loan\_number |

+---------------+-------------+

| Modise | L-16 |

| jooste | L-93 |

| johnson | L-15 |

| jackson | L-14 |

| Zwane | L-17 |

| smith | L-11 |

| smith | L-23 |

| williams | L-17 |

+---------------+-------------+

8 rows in set (0.00 sec)

mysql> insert employee values('Modise','sunnyside',1500);

Query OK, 1 row affected (0.11 sec)

mysql> insert employee values('Brown','sunnyside',1300);

Query OK, 1 row affected (0.12 sec)

mysql> insert employee values('Gopal','sunnyside',5300);

Query OK, 1 row affected (0.12 sec)

mysql> insert employee values('Johnson','Newtown',1500);

Query OK, 1 row affected (0.15 sec)

mysql> insert employee values('Loreena','Newtown',1300);

Query OK, 1 row affected (0.10 sec)

mysql> insert employee values('Peterson','Newtown',2500);

Query OK, 1 row affected (0.13 sec)

mysql> insert employee values('Rao','Austin',1500);

Query OK, 1 row affected (0.06 sec)

mysql> insert employee values('Sato','Austin',1600);

Query OK, 1 row affected (0.17 sec)

mysql> select \* from employee;

+---------------+-------------+--------+

| employee\_name | branch\_name | salary |

+---------------+-------------+--------+

| Brown | sunnyside | 1300 |

| Gopal | sunnyside | 5300 |

| Johnson | Newtown | 1500 |

| Loreena | Newtown | 1300 |

| Modise | sunnyside | 1500 |

| Peterson | Newtown | 2500 |

| Rao | Austin | 1500 |

| Sato | Austin | 1600 |

+---------------+-------------+--------+

8 rows in set (0.00 sec)

mysql> select \* from customer where balance < 700;

ERROR 1054 (42S22): Unknown column 'balance' in 'where clause'

mysql> select \* customer;

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 'customer' at line 1

mysql> select \* from customer;

+---------------+-----------------+----------------+

| customer\_name | customer\_street | customer\_city |

+---------------+-----------------+----------------+

| Brooks | Senator | George |

| Dlamini | Putnam | Port-Elizabeth |

| Johnson | Mmabatho | Mafikeng |

| Johson | Alma | Bloemfoutein |

| Jooste | North | Kimberly |

| Lindsay | Park | George |

| Lombard | Sand Hill | Nelspruit |

| Modise | Springs | George |

| Mokwena | Walnut | Port-Elizabeth |

| Smith | North | Kimberly |

| Williams | Nassau | Giyane |

| Zwane | Main | Mafikeng |

+---------------+-----------------+----------------+

12 rows in set (0.03 sec)

mysql> select \* from customeraccount where balance < 700;

+----------------+-------------+---------+

| account\_number | branch\_name | balance |

+----------------+-------------+---------+

| A-2542 | Mamelodi | 350 |

| A-5324 | Newtown | 500 |

| A-5624 | Sunnyside | 400 |

+----------------+-------------+---------+

3 rows in set (0.05 sec)

mysql> select \* from customer where customer\_city = 'johannesburg';

Empty set (0.00 sec)

mysql> select \* from employee where salary > 1500 and branch\_name ne 'newtown';

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 'ne 'newtown'' at line 1

mysql> select \* from employee where salary > 1500 and branch\_name != 'newtown';

+---------------+-------------+--------+

| employee\_name | branch\_name | salary |

+---------------+-------------+--------+

| Gopal | sunnyside | 5300 |

| Sato | Austin | 1600 |

+---------------+-------------+--------+

2 rows in set (0.00 sec)

mysql> select AVG(salary) 'avg\_salary' from employee;

+------------+

| avg\_salary |

+------------+

| 2062.5 |

+------------+

1 row in set (0.02 sec)

mysql> select MAX(assets) from bankbranch;

+-------------+

| MAX(assets) |

+-------------+

| 9000000 |

+-------------+

1 row in set (0.06 sec)

mysql>