MYSQL ASSIGNMENT

Database Practice:

file contains practice code for creating database,table,inserting values

Arithematic operator, comparison operator, logical operator, DELETE and DROP commands)

mysql> show database;

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 'database' at line 1

mysql> show databases;

```
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| nit                |
| nit2               |
| performance_schema |
| samson             |
| sys                |
+--------------------+
```

7 rows in set (1.33 sec)

mysql> use samson;

mysql> CREATE TABLE microsoft (

   -> id INT,

   -> name VARCHAR(100),

   -> age INT,

```
   -> address VARCHAR(200),

   -> salary INT

   -> );
```

Query OK, 0 rows affected (0.90 sec)

```
mysql> INSERT INTO microsoft (id, name, age, address, salary)

   -> VALUES(1,'Ramesh',32,'Ahmedabad',2000),

   -> (2,'khilan',24,'Delhi',1500),

   -> (3,'Kaushik',23,'Kota',2000),

   -> (4,'Chaitali',25,'Mumbai',6500),

   -> (5,'Hardik',27,'Bhopal',8500),

   -> (6,'Komal',22,'MP',4500),

   -> (7,'Muffy',24,'Indore',10000);
```

Query OK, 7 rows affected (1.62 sec)

Records: 7 Duplicates: 0 Warnings: 0

```
mysql> select * from microsoft;

+------+----------+------+-----------+--------+
| id   | name     | age  | address   | salary |
+------+----------+------+-----------+--------+
|    1 | Ramesh   |   32 | Ahmedabad |   2000 |
|    2 | khilan   |   24 | Delhi     |   1500 |
|    3 | Kaushik  |   23 | Kota      |   2000 |
|    4 | Chaitali |   25 | Mumbai    |   6500 |
|    5 | Hardik   |   27 | Bhopal    |   8500 |
|    6 | Komal    |   22 | MP        |   4500 |
|    7 | Muffy    |   24 | Indore    |  10000 |
+------+----------+------+-----------+--------+
```

7 rows in set (0.00 sec)

mysql> select * from microsoft where salary > 5000;

```
+------+----------+------+---------+--------+
| id   | name     | age  | address | salary |
+------+----------+------+---------+--------+
|    4 | Chaitali |   25 | Mumbai  |   6500 |
|    5 | Hardik   |   27 | Bhopal  |   8500 |
|    7 | Muffy    |   24 | Indore  |  10000 |
+------+----------+------+---------+--------+
```
3 rows in set (0.04 sec)

mysql> select * from microsoft where salary=2000;

```
+------+----------+------+-----------+--------+
| id   | name     | age  | address   | salary |
+------+----------+------+-----------+--------+
|    1 | Ramesh   |   32 | Ahmedabad |   2000 |
|    3 | Kaushik  |   23 | Kota      |   2000 |
+------+----------+------+-----------+--------+
```
2 rows in set (0.00 sec)

mysql> select * from microsoft where salary !=2000;

```
+------+----------+------+---------+--------+
| id   | name     | age  | address | salary |
+------+----------+------+---------+--------+
|    2 | khilan   |   24 | Delhi   |   1500 |
```

```
|    4 | Chaitali |   25 | Mumbai  |   6500 |
|    5 | Hardik   |   27 | Bhopal  |   8500 |
|    6 | Komal    |   22 | MP      |   4500 |
|    7 | Muffy    |   24 | Indore  |  10000 |
+------+----------+------+---------+-------+
5 rows in set (0.03 sec)
```

mysql> select * from microsoft where salary <> 2000;

```
+------+----------+------+---------+-------+
| id   | name     | age  | address | salary |
+------+----------+------+---------+-------+
|    2 | khilan   |   24 | Delhi   |   1500 |
|    4 | Chaitali |   25 | Mumbai  |   6500 |
|    5 | Hardik   |   27 | Bhopal  |   8500 |
|    6 | Komal    |   22 | MP      |   4500 |
|    7 | Muffy    |   24 | Indore  |  10000 |
+------+----------+------+---------+-------+
5 rows in set (0.00 sec)
```

mysql> select * from microsoft where salary > 6500;

```
+------+--------+------+---------+--------+
| id   | name   | age  | address | salary |
+------+--------+------+---------+--------+
|    5 | Hardik |   27 | Bhopal  |   8500 |
|    7 | Muffy  |   24 | Indore  |  10000 |
+------+--------+------+---------+--------+
2 rows in set (0.00 sec)
```

mysql> select * from microsoft where salary >=6500;

```
+------+----------+------+---------+--------+
| id   | name     | age  | address | salary |
+------+----------+------+---------+--------+
|    4 | Chaitali |   25 | Mumbai  |   6500 |
|    5 | Hardik   |   27 | Bhopal  |   8500 |
|    7 | Muffy    |   24 | Indore  |  10000 |
+------+----------+------+---------+--------+
```

3 rows in set (0.00 sec)

mysql> select * from microsoft where salary >=25 and salary >=6500;

```
+------+----------+------+---------+--------+
| id   | name     | age  | address | salary |
+------+----------+------+---------+--------+
|    4 | Chaitali |   25 | Mumbai  |   6500 |
|    5 | Hardik   |   27 | Bhopal  |   8500 |
|    7 | Muffy    |   24 | Indore  |  10000 |
+------+----------+------+---------+--------+
```

3 rows in set (0.00 sec)

mysql> select * from microsoft where age >=25 and salary >=6500; # add multiple condition each should satisfy

```
+------+----------+------+---------+--------+
| id   | name     | age  | address | salary |
+------+----------+------+---------+--------+
|    4 | Chaitali |   25 | Mumbai  |   6500 |
|    5 | Hardik   |   27 | Bhopal  |   8500 |
+------+----------+------+---------+--------+
```

2 rows in set (0.00 sec)

mysql> select * from microsoft where age >25= or salary >=6500;

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 'or salary >=6500' at line 1

mysql> select * from microsoft where age >=25 or salary >=6500;

```
+------+----------+------+-----------+--------+
| id   | name     | age  | address   | salary |
+------+----------+------+-----------+--------+
|    1 | Ramesh   |   32 | Ahmedabad |   2000 |
|    4 | Chaitali |   25 | Mumbai    |   6500 |
|    5 | Hardik   |   27 | Bhopal    |   8500 |
|    7 | Muffy    |   24 | Indore    |  10000 |
+------+----------+------+-----------+--------+
```

4 rows in set (0.00 sec)

mysql> select * from microsoft where age is not null;   # all rows where age column value is not a null

```
+------+----------+------+-----------+--------+
| id   | name     | age  | address   | salary |
+------+----------+------+-----------+--------+
|    1 | Ramesh   |   32 | Ahmedabad |   2000 |
|    2 | khilan   |   24 | Delhi     |   1500 |
|    3 | Kaushik  |   23 | Kota      |   2000 |
|    4 | Chaitali |   25 | Mumbai    |   6500 |
|    5 | Hardik   |   27 | Bhopal    |   8500 |
|    6 | Komal    |   22 | MP        |   4500 |
|    7 | Muffy    |   24 | Indore    |  10000 |
```

```
+------+---------+------+----------+--------+

7 rows in set (0.04 sec)


mysql> select * from microsoft where age is not null

    -> \c

mysql> select * from microsoft where

    -> name like 'ko%';

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

| id   | name  | age  | address | salary |

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

|    6 | Komal |   22 | MP      |   4500 |

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

1 row in set (0.04 sec)


mysql> select * from microsoft where age in (25,27);    # rows where 25 < age < 27

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

| id   | name     | age  | address | salary |

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

|    4 | Chaitali |   25 | Mumbai  |   6500 |

|    5 | Hardik   |   27 | Bhopal  |   8500 |

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

2 rows in set (0.04 sec)


mysql> select * from microsoft;

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

| id   | name     | age  | address   | salary |

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

|    1 | Ramesh   |   32 | Ahmedabad |   2000 |
```

```
|    2 | khilan   |   24 | Delhi    |   1500 |

|    3 | Kaushik  |   23 | Kota     |   2000 |

|    4 | Chaitali |   25 | Mumbai   |   6500 |

|    5 | Hardik   |   27 | Bhopal   |   8500 |

|    6 | Komal    |   22 | MP       |   4500 |

|    7 | Muffy    |   24 | Indore   |  10000 |

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

7 rows in set (0.00 sec)


mysql> select * from microsoft where age between 25 and 27;    # rows where 25 < age < 27

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

| id   | name     | age  | address | salary |

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

|    4 | Chaitali |   25 | Mumbai  |   6500 |

|    5 | Hardik   |   27 | Bhopal  |   8500 |

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

2 rows in set (0.04 sec)


mysql> select age from microsoft;   # get specific column

+------+

| age  |

+------+

|   32 |

|   24 |

|   23 |

|   25 |

|   27 |

|   22 |
```

| 24 |

+------+

7 rows in set (0.00 sec)

mysql> select * from microsoft where age > all (select age from customers where salary > 6500);   /*i want the customer whose age is more than the age of customers whose salary is > 6500 */

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

| id | name | age | address | salary |

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

| 1 | Ramesh | 32 | Ahmedabad | 2000 |

| 2 | khilan | 24 | Delhi | 1500 |

| 3 | Kaushik | 23 | Kota | 2000 |

| 4 | Chaitali | 25 | Mumbai | 6500 |

| 5 | Hardik | 27 | Bhopal | 8500 |

| 6 | Komal | 22 | MP | 4500 |

| 7 | Muffy | 24 | Indore | 10000 |

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

7 rows in set (0.31 sec)

mysql> select * from microsoft where age > any (select age from customers where salary > 6500);   /*i want the customer whose age is more than the age of any of the customers whose

Empty set (0.00 sec)

mysql> select * from microsoft;

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

| id | name | age | address | salary |

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

```
|    1 | Ramesh   |    32 | Ahmedabad |   2000 |

|    2 | khilan   |    24 | Delhi     |   1500 |

|    3 | Kaushik  |    23 | Kota      |   2000 |

|    4 | Chaitali |    25 | Mumbai    |   6500 |

|    5 | Hardik   |    27 | Bhopal    |   8500 |

|    6 | Komal    |    22 | MP        |   4500 |

|    7 | Muffy    |    24 | Indore    |  10000 |

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

7 rows in set (0.00 sec)


mysql> select * from microsoft where salary = 10000;        #SQL Boolean Expression

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

| id   | name  | age  | address | salary |

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

|    7 | Muffy |    24 | Indore  |  10000 |

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

1 row in set (0.00 sec)


mysql> select (15+6) AS ADDITION;

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

| ADDITION |

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

|     21 |

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

1 row in set (0.00 sec)


mysql> select count(*) AS "RECORDS" FROM CUSTOMERS;          # SQL Numeric Expression

+---------+
```

```
| RECORDS |

+---------+

|       0 |

+---------+

1 row in set (1.73 sec)


mysql> SELECT CURRENT_TIMESTAMP;        # SQL Date Expression

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

| CURRENT_TIMESTAMP   |

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

| 2025-05-30 00:22:08 |

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

1 row in set (0.04 sec)
```

mysql> select age from customers where exists (select age from customers where salary>6500);

Empty set (0.04 sec)

mysql> select age from microsoft where exists (select age from customers where salary>6500);

Empty set (0.00 sec)

mysql> select age from microsoft where exists (select age from microsoft where salary>6500);

```
+------+

| age  |

+------+

|   32 |

|   24 |
```

| 23 |

| 25 |

| 27 |

| 22 |

| 24 |

+------+

7 rows in set (0.00 sec)

mysql> drop database practice;

ERROR 1008 (HY000): Can't drop database 'practice'; database doesn't exist

mysql> DROP DATABASE practice;

ERROR 1008 (HY000): Can't drop database 'practice'; database doesn't exist

mysql> drop database samson;

Query OK, 2 rows affected (2.55 sec)

mysql> create database nit;

ERROR 1007 (HY000): Can't create database 'nit'; database exists

mysql> create database legion;

Query OK, 1 row affected (0.04 sec)

mysql> use legion;

Database changed

mysql> create table students(

    -> id int,

    -> name varchar(100),

    -> age int,

    -> marks int

    ->);   # CREATING TABLE

Query OK, 0 rows affected (1.68 sec)

mysql> insert into students values(1,'sonali',28,50),

   -> (2,'kim',26,48);

Query OK, 2 rows affected (0.07 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select * from students;

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

| id | name | age | marks |

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

| 1 | sonali | 28 | 50 |

| 2 | kim | 26 | 48 |

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

2 rows in set (0.00 sec)

mysql> delete from students where age=28;

Query OK, 1 row affected (0.04 sec)

mysql> select * from students;

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

| id | name | age | marks |

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

| 2 | kim | 26 | 48 |

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

1 row in set (0.00 sec)

mysql> delete from students where age=60;   # DELETE SPECIFIC ROW

Query OK, 0 rows affected (0.00 sec)

mysql> select * from students;

```
+------+------+------+-------+
| id   | name | age  | marks |
+------+------+------+-------+
|    2 | kim  |   26 |    48 |
+------+------+------+-------+
```

1 row in set (0.00 sec)

mysql> insert into students values(1,'sonali',28,50);

Query OK, 1 row affected (0.00 sec)

mysql> select * from students;

```
+------+--------+------+-------+
| id   | name   | age  | marks |
+------+--------+------+-------+
|    2 | kim    |   26 |    48 |
|    1 | sonali |   28 |    50 |
+------+--------+------+-------+
```

2 rows in set (0.00 sec)

mysql> delete from students where marks >=60;

Query OK, 0 rows affected (0.00 sec)

mysql> select * from students;

```
+------+--------+------+-------+
| id   | name   | age  | marks |
```

```
+------+--------+------+-------+
|   2 | kim    |  26 |   48 |
|   1 | sonali |  28 |   50 |
+------+--------+------+-------+
2 rows in set (0.00 sec)


mysql> delete from students;
Query OK, 2 rows affected (0.00 sec)


mysql> select * from students;
Empty set (0.00 sec)


mysql> /*  DROP- delete table,database etc, data can't retrive.
   /*>    DELETE- remove specific row,entire table,etc.data can be retrived   */
```