EXP - 1

* CREATE the database organisation
  > CREATE DATABASE Organisation;

* Select the current database
  > Use organisation;
  > show tables;

* Create the following tables., supplies & products
** set supplier as the primary key for the table supplier
  > CREATE TABLE SUPPLIER (supplier int primary not null; name varchar (25) not null, phone number int (10) not null);

  > CREATE TABLE products (product ID int primary key not null, product code varchar (3) not null, name varchar (25) not null, quantity int not null, price float not null, supplierID int not null);

* set the supplier ID column of the products table as a foreign key references the supplier ID column of the supplier table.

  > ALTER table product add foreign key (supplierID) reference supplier (supplierID);

* Insert values to the supplier table
  > insert into supplier(supplierid, name, phone number) values

(502, ' ABC traders', 8888111);
> insert into supplier(supplierid, name, phone number) value
(502, ' XYZ company', '88882222');
> insert into supplier(supplierID, name, phonenumber)
values (503, 'QQ corp', 88883333);

* Insert values into products table
  > INSERT INTO products(productID, productcode, quantity, price, supplierID) values (2001, 'PEC', 'pencil 3B', 500, 0.52, 501);
  > INSERT INTO products(productId, product code, quantity, price, supplierID) values (2002, 'PEC', 'pencil 4B', 600, 0.53, 501);
  > INSERT INTO products(productId, product code, quantity, price, supplierID) values (2003, 'PEC', 'pencil 5B', 600, 0.54, 502);
  > INSERT INTO products(productId, product code, name, quantity, price, supplierID) values (2004, 'PEC', 'pencil 6B', 500, 0.55, 503);

* SELECTS # from
* List all the tables in the current database
  > SELECT * from supplierd;
  > select * from products;

* Display the structure of the supplies and products tables

> Describe supplies;
> Describe products;

* Drop the tables

  > Drop table products;
  > Drop table supplies;

* Drop the database

  > Drop DATABASE Organisation;

```
Enter password: *************
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 8.0.20 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>  CREATE DATABASE organisation;
Query OK, 1 row affected (0.01 sec)

mysql> use organisation;
Database changed
mysql> show tables;
Empty set (0.00 sec)

mysql> CREATE TABLE suppliers(supplierID int primary key not null,name varchar(25) not null, phone_number int(10) not null);
Query OK, 0 rows affected, 1 warning (0.04 sec)

mysql> CREATE TABLE  products ( productID int primary key not null, productCode varchar(3) not null, name varchar(25) not null, quantity int not null , price
float not null, supplierID int  not null);
Query OK, 0 rows affected (0.04 sec)

mysql>  alter table products add foreign key(supplierID) references suppliers(supplierID);
Query OK, 0 rows affected (0.11 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql>  insert into suppliers(supplierID, name, phone number) values (501, 'ABC Traders', '88881111') ;
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 'num
ber) values (501, 'ABC Traders', '88881111')' at line 1
mysql> insert into suppliers(supplierID, name, phone_number) values (501, 'ABC Traders', '88881111') ;
Query OK, 1 row affected (0.01 sec)

mysql> insert into suppliers(supplierID, name, phone_number) values (502, 'XYZ Company', '88882222') ;
Query OK, 1 row affected (0.01 sec)

mysql>  insert into suppliers(supplierID, name, phone_number) values (503, 'QQ Corp', '88883333');
Query OK, 1 row affected (0.01 sec)

mysql> insert into  products ( productID, productCode, name, quantity, price, supplierID) values (2001, 'PEC','Pencil 3B',500, 0.52, 501) ;
Query OK, 1 row affected (0.01 sec)

mysql> insert into  products ( productID, productCode, name, quantity, price, supplierID) values (2002, 'PEC','Pencil 4B',600, 0.53, 501) ;
Query OK, 1 row affected (0.01 sec)
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```
mysql> insert into  products ( productID, productCode, name, quantity, price, supplierID) values (2002, 'PEC','Pencil 4B',600, 0.53, 501) ;
ERROR 1062 (23000): Duplicate entry '2002' for key 'products.PRIMARY'
mysql> insert into  products ( productID, productCode, name, quantity, price, supplierID) values (2003, 'PEC','Pencil 5B',600, 0.54, 502);
Query OK, 1 row affected (0.01 sec)

mysql> insert into  products ( productID, productCode, name, quantity, price, supplierID) values (2004, 'PEC','Pencil 6B',500, 0.55, 503);
Query OK, 1 row affected (0.01 sec)

mysql> select * from suppliers;
+------------+--------------+--------------+
| supplierID | name         | phone_number |
+------------+--------------+--------------+
|        501 | ABC Traders  |     88881111 |
|        502 | XYZ Company  |     88882222 |
|        503 | QQ Corp      |     88883333 |
+------------+--------------+--------------+
3 rows in set (0.00 sec)

mysql> select * from products;
+-----------+-------------+-----------+----------+-------+------------+
| productID | productCode | name      | quantity | price | supplierID |
+-----------+-------------+-----------+----------+-------+------------+
|      2001 | PEC         | Pencil 3B |      500 |  0.52 |        501 |
|      2002 | PEC         | Pencil 4B |      600 |  0.53 |        501 |
|      2003 | PEC         | Pencil 5B |      600 |  0.54 |        502 |
|      2004 | PEC         | Pencil 6B |      500 |  0.55 |        503 |
+-----------+-------------+-----------+----------+-------+------------+
4 rows in set (0.00 sec)

mysql> desc suppliers;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| supplierID   | int         | NO   | PRI | NULL    |       |
| name         | varchar(25) | NO   |     | NULL    |       |
| phone_number | int         | NO   |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
3 rows in set (0.01 sec)

mysql> desc products;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| productID   | int         | NO   | PRI | NULL    |       |
| productCode | varchar(3)  | NO   |     | NULL    |       |
| name        | varchar(25) | NO   |     | NULL    |       |
| quantity    | int         | NO   |     | NULL    |       |
| price       | float       | NO   |     | NULL    |       |
| supplierID  | int         | NO   | MUL | NULL    |       |
```

```
mysql> desc products;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| productID   | int         | NO   | PRI | NULL    |       |
| productCode | varchar(3)  | NO   |     | NULL    |       |
| name        | varchar(25) | NO   |     | NULL    |       |
| quantity    | int         | NO   |     | NULL    |       |
| price       | float       | NO   |     | NULL    |       |
| supplierID  | int         | NO   | MUL | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
6 rows in set (0.00 sec)

mysql> drop tables suppliers;
ERROR 3730 (HY000): Cannot drop table 'suppliers' referenced by a foreign key constraint 'products_ibfk_1' on table 'products'.
mysql> drop table suppliers;
ERROR 3730 (HY000): Cannot drop table 'suppliers' referenced by a foreign key constraint 'products_ibfk_1' on table 'products'.
mysql> drop table products'
    '> ;
    '> ^C
mysql> drop table products;
Query OK, 0 rows affected (0.06 sec)

mysql> drop table suppliers;
Query OK, 0 rows affected (0.03 sec)

mysql> drop database organisation;
Query OK, 0 rows affected (0.01 sec)

mysql> _
```