

EXP - 3

* Create the database organisation.

→ ~~CREATE~~ DATABASE Organisation;

* Select the current database

→ Use Organisation;

→ Show tables;

* ~~CREATE~~ the tables, suppliers, products, products-suppliers, products-details.

* Set suppliers as the primary key for the table suppliers.
→ ~~CREATE~~ TABLE suppliers (supplierid int primary key not null, name varchar(25) not null, phone-number int(10) not null);

→ ~~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);

→ ~~CREATE~~ table products-suppliers (productid int not null, supplierid^{int} not null)

→ ~~CREATE~~ table products-details (productid int not null, comment varchar(100));

* Set the supplierid column of the products table as foreign key references the supplierid column

of the supplier table.

> alter table products add foreign key (supplier_id) references suppliers (supplier_id);

* Set the product_id column of the product_details table as a foreign key references the product_id column of the products table.

> alter table product_details add foreign key (product_id) references products (product_id);

* Insert values into supplier table.

> insert into suppliers (supplier_id, name, phone_number) values (501, 'ABC Traders', '88881111');

> insert into suppliers (supplier_id, name, phone_number) values (502, 'XYZ company', '88882222');

> insert into suppliers (supplier_id, name, phone_number) values (503, 'QW corp', '88883333');

* Insert values into products table *

> insert into products (product_id, product_code, name, quantity, price, supplier_id) values (2001, 'P1', 'PENCIL 3B', 500, 0.52, 501);

> insert into products (productid, productcode, name, quantity, price, ~~price~~, supplierid) values (2002, 'Pec', 'pencil 4B', 600, 0.53, 501);

> insert into products (productid, productcode, name, quantity, price, supplierid) values (2003, 'Pec', 'pencil 5B', 600, 0.54, 502);

> insert into products (productid, productcode, name, quantity, price, supplierid) values (2004, 'Pec', 'pencil 6B', 500, 0.55, 503);

* List all the tables in the current database

> select * from suppliers;

> select * from products;

* Display the structure of the suppliers and products table

> describe suppliers;

> describe products;

> describe products-suppliers;

> describe product-details;

* Display name of all product supplied by ABC trader.

> select product.name from products, suppliers where product.supplierid = suppliers.supplierid and supplier.name = 'ABC trader';

* Drop the tables

- > Drop table product-details ;
- > Drop table products_suppliers ;
- > Drop table products
- > Drop table suppliers ;

~~* Drop database~~

* Delete the database

- > Drop DATABASE Organisation.

Enter password: *****

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

Your MySQL connection id is 19

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 (0.05 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 (0.07 sec)
```

```
mysql> create table products_suppliers (productID int not null, supplierID int not null);
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> CREATE TABLE product_details(productID int not null,comment varchar());
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 1
```

```
mysql> CREATE TABLE product_details(productID int not null,comment varchar(100));
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> alter table products add foreign key(supplierID) references suppliers(supplierID);
Query OK, 0 rows affected (0.18 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> alter table product_details add foreign key(productID) references products(productID);
Query OK, 0 rows affected (0.24 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
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)
```



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)

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> describe 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> describe products;

Field	Type	Null	Key	Default	Extra
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```
mysql> describe 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> describe products_suppliers;
```

Field	Type	Null	Key	Default	Extra
productID	int	NO		NULL	
supplierID	int	NO		NULL	

```
2 rows in set (0.00 sec)
```

```
mysql> describe products_details;
```

```
ERROR 1146 (42S02): Table 'organisation.products_details' doesn't exist
```

```
mysql> describe product_details;
```

Field	Type	Null	Key	Default	Extra
productID	int	NO	MUL	NULL	
comment	varchar(100)	YES		NULL	

```
2 rows in set (0.00 sec)
```

```
mysql> select products.name from products,suppliers where products.supplierid=suppliers.supplierid and suppliers.name='ABC Traders';
```

name
Pencil 3B
Pencil 4B

```
2 rows in set (0.00 sec)
```

```
mysql> drop table products;
```

```
ERROR 3730 (HY000): Cannot drop table 'products' referenced by a foreign key constraint 'product_details_ibfk_1' on table 'product_details'.
```

```
mysql> drops table product_details;
```

```
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 'drops table product_details' at line 1
```

```
mysql> drop table product_details;
```

```
Query OK, 0 rows affected (0.04 sec)
```



```
mysql> drop table products;
ERROR 3730 (HY000): Cannot drop table 'products' referenced by a foreign key constraint 'product_details_ibfk_1' on table 'product_details'.
mysql> drops table product_details;
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 'dro
ps table product_details' at line 1
mysql> drop table product_details;
Query OK, 0 rows affected (0.04 sec)

mysql> drop table product_suppliers;
ERROR 1051 (42S02): Unknown table 'organisation.product_suppliers'
mysql> drop table products_suppliers;
Query OK, 0 rows affected (0.04 sec)

mysql> drop table products;
Query OK, 0 rows affected (0.04 sec)

mysql> drop table suppliers;
Query OK, 0 rows affected (0.04 sec)

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

mysql>
```

