Microsoft Windows [Version 10.0.26100.4652]

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

Enter password: \*\*\*\*\*\*\*\*\*\*

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

Your MySQL connection id is 21

Server version: 8.0.43 MySQL Community Server - GPL

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owners.

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

mysql> show databases;

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

| Database |

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

| information\_schema |

| mysql |

| performance\_schema |

| sakila |

| sys |

| world |

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

6 rows in set (0.07 sec)

mysql> create database Inventory;

Query OK, 1 row affected (0.03 sec)

mysql> use Inventory;

Database changed

mysql> create table product(pid int primary key,pname varchar(20),price float);

Query OK, 0 rows affected (0.10 sec)

mysql> create table sale(sid int,pid int,quantity int,FOREIGN KEY(pid) REFERENCES product(pid));

Query OK, 0 rows affected (0.03 sec)

mysql> create table supplier(suppid int,sname varchar(20),address varchar(20));

Query OK, 0 rows affected (0.02 sec)

mysql> alter table supplier add primary key(suppid);

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table supplier add CONSTRAINT chk CHECK(suppid>900);

Query OK, 0 rows affected (0.05 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> create user 'Rajesh'@localhost identified by 'rajesh186';

Query OK, 0 rows affected (0.02 sec)

mysql> grant select on \*.\* to 'Rajesh'@'localhost';

Query OK, 0 rows affected (0.01 sec)

mysql> create user 'Mohit'@localhost identified by 'mohit186';

Query OK, 0 rows affected (0.01 sec)

mysql> grant select on Inventory.\* to 'Mohit'@'localhost';

Query OK, 0 rows affected (0.01 sec)

mysql> desc sale;

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

| Field | Type | Null | Key | Default | Extra |

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

| sid | int | YES | | NULL | |

| pid | int | YES | MUL | NULL | |

| quantity | int | YES | | NULL | |

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

3 rows in set (0.01 sec)

mysql> desc product;

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

| Field | Type | Null | Key | Default | Extra |

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

| pid | int | NO | PRI | NULL | |

| pname | varchar(20) | YES | | NULL | |

| price | float | YES | | NULL | |

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

3 rows in set (0.00 sec)

mysql> desc supplier;

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

| Field | Type | Null | Key | Default | Extra |

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

| suppid | int | NO | PRI | NULL | |

| sname | varchar(20) | YES | | NULL | |

| address | varchar(20) | YES | | NULL | |

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

3 rows in set (0.00 sec)

**USER RAJESH**

C:\Program Files\MySQL\MySQL Server 8.0\bin>mysql -h localhost -u Rajesh -p

Enter password: \*\*\*\*\*\*\*\*\*

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

Your MySQL connection id is 23

Server version: 8.0.43 MySQL Community Server - GPL

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owners.

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

mysql> use Inventory;

Database changed

mysql> desc sale;

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

| Field | Type | Null | Key | Default | Extra |

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

| sid | int | YES | | NULL | |

| pid | int | YES | MUL | NULL | |

| quantity | int | YES | | NULL | |

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

3 rows in set (0.00 sec)

mysql> desc product;

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

| Field | Type | Null | Key | Default | Extra |

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

| pid | int | NO | PRI | NULL | |

| pname | varchar(20) | YES | | NULL | |

| price | float | YES | | NULL | |

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

3 rows in set (0.00 sec)

mysql> desc supplier;

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

| Field | Type | Null | Key | Default | Extra |

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

| suppid | int | NO | PRI | NULL | |

| sname | varchar(20) | YES | | NULL | |

| address | varchar(20) | YES | | NULL | |

| email | varchar(50) | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> alter table supplier rename column supplier to merchant;

ERROR 1142 (42000): ALTER command denied to user 'Rajesh'@'localhost' for table 'supplier'

mysql> show grants for 'Rajesh'@localhost;

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

| Grants for Rajesh@localhost |

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

| GRANT SELECT ON \*.\* TO `Rajesh`@`localhost` |

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

1 row in set (0.00 sec)

**USER MOHIT**

C:\Program Files\MySQL\MySQL Server 8.0\bin>mysql -h localhost -u Mohit -p

Enter password: \*\*\*\*\*\*\*\*

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Your MySQL connection id is 25

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

mysql> use Inventory;

Database changed

mysql> desc sale;

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

| Field | Type | Null | Key | Default | Extra |

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

| sid | int | YES | | NULL | |

| pid | int | YES | MUL | NULL | |

| quantity | int | YES | | NULL | |

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

3 rows in set (0.00 sec)

mysql> desc product;

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

| Field | Type | Null | Key | Default | Extra |

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

| pid | int | NO | PRI | NULL | |

| pname | varchar(20) | YES | | NULL | |

| price | float | YES | | NULL | |

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

3 rows in set (0.00 sec)

mysql> desc supplier;

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

| Field | Type | Null | Key | Default | Extra |

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

| suppid | int | NO | PRI | NULL | |

| sname | varchar(20) | YES | | NULL | |

| address | varchar(20) | YES | | NULL | |

| email | varchar(50) | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> show grants for 'Mohit'@localhost;

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

| Grants for Mohit@localhost |

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

| GRANT USAGE ON \*.\* TO `Mohit`@`localhost` |

| GRANT SELECT ON `inventory`.\* TO `Mohit`@`localhost` |

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

2 rows in set (0.00 sec)

**DML OPERATIONS ON DB**

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

Enter password: \*\*\*\*\*\*\*\*\*\*

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

Your MySQL connection id is 27

Server version: 8.0.43 MySQL Community Server - GPL

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owners.

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

mysql> use Inventory;

Database changed

mysql> desc supplier;

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

| Field | Type | Null | Key | Default | Extra |

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

| suppid | int | NO | PRI | NULL | |

| sname | varchar(20) | YES | | NULL | |

| address | varchar(20) | YES | | NULL | |

| email | varchar(50) | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> insert into supplier(suppid,sname) values(2203,'Hedric');

Query OK, 1 row affected (0.01 sec)

mysql> desc product;

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

| Field | Type | Null | Key | Default | Extra |

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

| pid | int | NO | PRI | NULL | |

| pname | varchar(20) | YES | | NULL | |

| price | float | YES | | NULL | |

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

3 rows in set (0.00 sec)

mysql> desc sale;

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

| Field | Type | Null | Key | Default | Extra |

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

| sid | int | YES | | NULL | |

| pid | int | YES | MUL | NULL | |

| quantity | int | YES | | NULL | |

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

3 rows in set (0.00 sec)

mysql> insert into sale(sid,pid) values(100,458);

ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`inventory`.`sale`, CONSTRAINT `sale\_ibfk\_1` FOREIGN KEY (`pid`) REFERENCES `product` (`pid`))

mysql> desc product;

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

| Field | Type | Null | Key | Default | Extra |

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

| pid | int | NO | PRI | NULL | |

| pname | varchar(20) | YES | | NULL | |

| price | float | YES | | NULL | |

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

3 rows in set (0.00 sec)

mysql> insert into product(pid) values(104);

Query OK, 1 row affected (0.00 sec)

mysql> insert into sale(sid,pid) values(100,104);

Query OK, 1 row affected (0.00 sec)

your MySQL server version for the right syntax to use near '(pid=104)' at line 1

mysql> delete from product where pid = 104;

ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails (`inventory`.`sale`, CONSTRAINT `sale\_ibfk\_1` FOREIGN KEY (`pid`) REFERENCES `product` (`pid`))