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 9

Server version: 8.0.43 MySQL Community Server - GPL

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

mysql> show databases;

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

| Database |

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

| information\_schema |

| inventory |

| mysql |

| performance\_schema |

| sakila |

| sys |

| world |

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

7 rows in set (0.07 sec)

mysql> use inventory;

Database changed

mysql> show tables;

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

| Tables\_in\_inventory |

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

| product |

| sale |

| supplier |

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

3 rows in set (0.01 sec)

mysql> select \*from product;

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

| pid | pname | price |

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

| 104 | NULL | NULL |

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

1 row in set (0.02 sec)

mysql> select \*from sale;

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

| sid | pid | quantity |

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

| 100 | 104 | NULL |

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

1 row in set (0.01 sec)

mysql> select \*from supplier;

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

| suppid | sname | address | email |

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

| 2203 | Hedric | NULL | NULL |

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

1 row in set (0.01 sec)

mysql> create view V1 as select product.pid,pname,quantity,price from product,sale where product.pid=sale.pid;

Query OK, 0 rows affected (0.02 sec)

mysql> insert into V1 values('1024',coffee,2,96);

ERROR 1394 (HY000): Can not insert into join view 'inventory.v1' without fields list

mysql> update V1 set pid=1024;

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`))

mysql> drop view V1;

Query OK, 0 rows affected (0.01 sec)

**INDEXING :**

mysql> create index X on product(pid,pname);

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

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 values(1024,Coffee,96);

ERROR 1054 (42S22): Unknown column 'Coffee' in 'field list'

mysql> insert into product values(1024,'Coffee',96);

Query OK, 1 row affected (0.01 sec)

mysql> select \*from product;

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

| pid | pname | price |

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

| 104 | NULL | NULL |

| 1024 | Coffee | 96 |

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

2 rows in set (0.00 sec)

mysql> show index from product;

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

| Table | Non\_unique | Key\_name | Seq\_in\_index | Column\_name | Collation | Cardinality | Sub\_part | Packed | Null | Index\_type | Comment | Index\_comment | Visible | Expression |

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

| product | 0 | PRIMARY | 1 | pid | A | 1 | NULL | NULL | | BTREE | | | YES | NULL |

| product | 1 | X | 1 | pid | A | 1 | NULL | NULL | | BTREE | | | YES | NULL |

| product | 1 | X | 2 | pname | A | 1 | NULL | NULL | YES | BTREE | | | YES | NULL |

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

3 rows in set (0.01 sec)

**LOGICAL OPERATIONS :**

mysql> select \*from product where price between 50 AND 200;

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

| pid | pname | price |

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

| 1024 | Coffee | 96 |

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

1 row in set (0.00 sec)

mysql> select pname from product where pname like 'f%';

Empty set (0.00 sec)

mysql> select pname from product where pname like 'C%';

+--------+

| pname |

+--------+

| Coffee |

+--------+

1 row in set (0.00 sec)

mysql> select pname from product where pname like '%f%';

+--------+

| pname |

+--------+

| Coffee |

+--------+

1 row in set (0.00 sec)