**Practical no.3**

Microsoft Windows [Version 10.0.26100.4652]

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C:\Program Files\MySQL\MySQL Server 9.3\bin>mysql -h localhost -u root -p

Enter password: \*\*\*\*

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

Your MySQL connection id is 70

Server version: 9.3.0 MySQL Community Server - GPL

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

mysql> use management;

Database changed

mysql> desc customer;

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

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

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

| cid | int | NO | PRI | NULL | |

| name | varchar(30) | YES | | NULL | |

| city | varchar(20) | YES | | NULL | |

| email | varchar(20) | YES | | NULL | |

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

4 rows in set (0.607 sec)

mysql> desc product;

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

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

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

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

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

| cat | varchar(20) | YES | | NULL | |

| price | float | YES | | NULL | |

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

4 rows in set (0.023 sec)

mysql> desc sale;

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

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

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

| sid | int | NO | PRI | NULL | |

| cid | int | YES | MUL | NULL | |

| pid | int | YES | | NULL | |

| qty | int | YES | | NULL | |

| saledate | date | YES | | NULL | |

| totalamt | float | YES | | NULL | |

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

6 rows in set (0.033 sec)

mysql> insert into customer values(101,'sara','pune','@SA');

Query OK, 1 row affected (0.172 sec)

mysql> insert into customer values(102,'ritesh','nashik','@RJ');

Query OK, 1 row affected (0.235 sec)

mysql> insert into customer values(103,'nikita','solapur','@MK');

Query OK, 1 row affected (0.245 sec)

mysql> insert into customer values(104,'sunita','mumbai','@AK');

Query OK, 1 row affected (0.234 sec)

mysql> insert into customer values(105,'dalika','delhi','@DA');

Query OK, 1 row affected (0.222 sec)

mysql> select \* from customer;

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

| cid | name | city | email |

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

| 101 | sara | pune | @SA |

| 102 | ritesh | nashik | @RJ |

| 103 | nikita | solapur | @MK |

| 104 | sunita | mumbai | @AK |

| 105 | dalika | delhi | @DA |

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

5 rows in set (0.012 sec)

mysql> insert into product values(201,'books','funny',400);

Query OK, 1 row affected (0.225 sec)

mysql> insert into product values(202,'magazine','horror',900);

Query OK, 1 row affected (0.235 sec)

mysql> insert into product values(203,'booknets','peacefull',500);

Query OK, 1 row affected (0.234 sec)

mysql> insert into product values(204,'storybook','happy',300);

Query OK, 1 row affected (0.235 sec)

mysql> insert into product values(205,'notebook','lovable',800);

Query OK, 1 row affected (0.250 sec)

mysql> select \* from product;

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

| pid | pname | cat | price |

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

| 201 | books | funny | 400 |

| 202 | magazine | horror | 900 |

| 203 | booknets | peacefull | 500 |

| 204 | storybook | happy | 300 |

| 205 | notebook | lovable | 800 |

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

5 rows in set (0.012 sec)

mysql> insert into sale(sid,cid,pid,qty,totalamt)values(301,105,204,2,'2022-04-12',3000),(302,102,203,7,'2024-09-18',7000),(303,101,202,3,'2025-02-15',2000),(304,103,205,1,'2021-03-19',1000),(305,102,204,4,'2020-08-20',4000);

ERROR 1136 (21S01): Column count doesn't match value count at row 1

mysql> INSERT INTO sale(sid, cid, pid, qty, saledate, totalamt)VALUES(301,105,204,2,'2022-04-12',3000),(302,102,203,7,'2024-09-18',7000),(303,101,202,3,'2025-02-15',2000),(304,103,205,1,'2021-03-19',1000),(305,102,204,4,'2020-08-20',4000);

Query OK, 5 rows affected (0.230 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> select \* from sale;

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

| sid | cid | pid | qty | saledate | totalamt |

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

| 301 | 105 | 204 | 2 | 2022-04-12 | 3000 |

| 302 | 102 | 203 | 7 | 2024-09-18 | 7000 |

| 303 | 101 | 202 | 3 | 2025-02-15 | 2000 |

| 304 | 103 | 205 | 1 | 2021-03-19 | 1000 |

| 305 | 102 | 204 | 4 | 2020-08-20 | 4000 |

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

5 rows in set (0.010 sec)

mysql> SELECT AVG(totalamt) FROM sale;

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

| AVG(totalamt) |

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

| 3400 |

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

1 row in set (0.240 sec)

mysql> select name from customer where cid in(select cid from sale where totalamt > (select avg (totalamt) from sale));

+--------+

| name |

+--------+

| ritesh |

+--------+

1 row in set (0.257 sec)

mysql> SELECT DISTINCT cid FROM sale WHERE totalamt > (SELECT AVG(totalamt) FROM sale );

+------+

| cid |

+------+

| 102 |

+------+

1 row in set (0.010 sec)

mysql> SELECT product.pid,sale.qty FROM product LEFT JOIN sale ON product.pid=sale.pid WHERE sale.pid IS NULL;

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

| pid | qty |

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

| 201 | NULL |

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

1 row in set (0.209 sec)

mysql> SELECT product.pid,sale.qty FROM product LEFT JOIN sale ON product.pid=sale.pid;

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

| pid | qty |

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

| 201 | NULL |

| 202 | 3 |

| 203 | 7 |

| 204 | 4 |

| 204 | 2 |

| 205 | 1 |

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

6 rows in set (0.013 sec)

mysql> SELECT pid, pname FROM product WHERE product.pid NOT IN (SELECT DISTINCT pid FROM sale);

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

| pid | pname |

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

| 201 | books |

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

1 row in set (0.013 sec)

mysql> SELECT pid, pname FROM product WHERE product.pid NOT IN (SELECT DISTINCT product.pid FROM sale);

Empty set (0.013 sec)