DQL COMMANDS:

mysql> show databases;

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

| Database |

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

| information\_schema |

| college |

| dbfirst |

| firstdb |

| mnc |

| mysql |

| performance\_schema |

| test |

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

8 rows in set (0.06 sec)

mysql> use mnc;

Database changed

mysql> create table employee(e\_id int,e\_name varchar(25),e\_salary int,e\_age int,e\_gender varchar(25),e\_dept varchar(25));

Query OK, 0 rows affected (0.12 sec)

mysql> insert employee values(01,'Sam',25000,24,'Male','Support'),(02,'Sri',20000,23,'Female','Analytics'),(03,'Vish',24000,24,'Female','Developer'),(04,'Kothai',35000,'25','Female','Developer'),(05,'Madhan','50000','27','Male','Manager'),(06,'Diya',45000,'30','Female','Sales');

Query OK, 6 rows affected (0.08 sec)

Records: 6 Duplicates: 0 Warnings: 0

mysql> desc employee;

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

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

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

| e\_id | int(11) | YES | | NULL | |

| e\_name | varchar(25) | YES | | NULL | |

| e\_salary | int(11) | YES | | NULL | |

| e\_age | int(11) | YES | | NULL | |

| e\_gender | varchar(25) | YES | | NULL | |

| e\_dept | varchar(25) | YES | | NULL | |

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

6 rows in set (0.11 sec)

mysql> select \* from employee;

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

| e\_id | e\_name | e\_salary | e\_age | e\_gender | e\_dept |

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

| 1 | Sam | 25000 | 24 | Male | Support |

| 2 | Sri | 20000 | 23 | Female | Analytics |

| 3 | Vish | 24000 | 24 | Female | Developer |

| 4 | Kothai | 35000 | 25 | Female | Developer |

| 5 | Madhan | 50000 | 27 | Male | Manager |

| 6 | Diya | 45000 | 30 | Female | Sales |

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

6 rows in set (0.00 sec)

mysql> select \* from employee where e\_age = "24" AND e\_dept = "Support";

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

| e\_id | e\_name | e\_salary | e\_age | e\_gender | e\_dept |

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

| 1 | Sam | 25000 | 24 | Male | Support |

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

1 row in set (0.06 sec)

mysql> select \* from employee where e\_age = "24" OR e\_dept = "Support";

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

| e\_id | e\_name | e\_salary | e\_age | e\_gender | e\_dept |

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

| 1 | Sam | 25000 | 24 | Male | Support |

| 3 | Vish | 24000 | 24 | Female | Developer |

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

2 rows in set (0.25 sec)

mysql> select e\_id AS 'emp\_id',e\_name AS 'emp\_name',e\_salary,e\_age,e\_gender,e\_dept FROM employe;

ERROR 1146 (42S02): Table 'mnc.employe' doesn't exist

mysql> select e\_id AS 'emp\_id',e\_name AS 'emp\_name',e\_salary,e\_age,e\_gender,e\_dept FROM employee;

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

| emp\_id | emp\_name | e\_salary | e\_age | e\_gender | e\_dept |

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

| 1 | Sam | 25000 | 24 | Male | Support |

| 2 | Sri | 20000 | 23 | Female | Analytics |

| 3 | Vish | 24000 | 24 | Female | Developer |

| 4 | Kothai | 35000 | 25 | Female | Developer |

| 5 | Madhan | 50000 | 27 | Male | Manager |

| 6 | Diya | 45000 | 30 | Female | Sales |

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

6 rows in set (0.00 sec)

mysql> select SUM(e\_salary),e\_age FROM employee GROUP BY e\_dept;

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

| SUM(e\_salary) | e\_age |

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

| 20000 | 23 |

| 59000 | 24 |

| 50000 | 27 |

| 45000 | 30 |

| 25000 | 24 |

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

5 rows in set (0.06 sec)

mysql> select SUM(e\_salary),e\_age FROM employee GROUP BY e\_dept HAVING SUM(e\_salary)>25000;

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

| SUM(e\_salary) | e\_age |

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

| 59000 | 24 |

| 50000 | 27 |

| 45000 | 30 |

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

3 rows in set (0.04 sec)

mysql> select count(emp\_id),e\_gender FROM employee GROUP BY e\_age;

ERROR 1054 (42S22): Unknown column 'emp\_id' in 'field list'

mysql> select count(e\_id),e\_gender FROM employee GROUP BY e\_age;

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

| count(e\_id) | e\_gender |

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

| 1 | Female |

| 2 | Male |

| 1 | Female |

| 1 | Male |

| 1 | Female |

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

5 rows in set (0.01 sec)

mysql> select MIN(e\_salary),e\_dept FROM employee GROUP BY e\_dept;

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

| MIN(e\_salary) | e\_dept |

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

| 20000 | Analytics |

| 24000 | Developer |

| 50000 | Manager |

| 45000 | Sales |

| 25000 | Support |

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

5 rows in set (0.04 sec)

mysql> select MIN(e\_salary),e\_dept FROM employee GROUP BY e\_dept HAVING MIN(e\_salary) > 30000;

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

| MIN(e\_salary) | e\_dept |

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

| 50000 | Manager |

| 45000 | Sales |

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

2 rows in set (0.00 sec)

mysql> select MAX(e\_salary),e\_dept FROM employee GROUP BY e\_dept;

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

| MAX(e\_salary) | e\_dept |

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

| 20000 | Analytics |

| 35000 | Developer |

| 50000 | Manager |

| 45000 | Sales |

| 25000 | Support |

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

5 rows in set (0.00 sec)

mysql> select MAX(e\_salary),e\_dept FROM employee GROUP BY e\_dept HAVING MIN(e\_salary) < 50000;

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

| MAX(e\_salary) | e\_dept |

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

| 20000 | Analytics |

| 35000 | Developer |

| 45000 | Sales |

| 25000 | Support |

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

4 rows in set (0.00 sec)

mysql> select AVG(e\_salary),e\_dept FROM employee GROUP BY e\_dept;

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

| AVG(e\_salary) | e\_dept |

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

| 20000.0000 | Analytics |

| 29500.0000 | Developer |

| 50000.0000 | Manager |

| 45000.0000 | Sales |

| 25000.0000 | Support |

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

5 rows in set (0.02 sec)

mysql> select AVG(e\_salary),e\_dept FROM employee GROUP BY e\_dept HAVING AVG(e\_salary) > 25000;

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

| AVG(e\_salary) | e\_dept |

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

| 29500.0000 | Developer |

| 50000.0000 | Manager |

| 45000.0000 | Sales |

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

3 rows in set (0.00 sec)

mysql> select \* from employee ORDER BY Name ASC;

ERROR 1054 (42S22): Unknown column 'Name' in 'order clause'

mysql> select \* from employee ORDER BY e\_name ASC;

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

| e\_id | e\_name | e\_salary | e\_age | e\_gender | e\_dept |

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

| 6 | Diya | 45000 | 30 | Female | Sales |

| 4 | Kothai | 35000 | 25 | Female | Developer |

| 5 | Madhan | 50000 | 27 | Male | Manager |

| 1 | Sam | 25000 | 24 | Male | Support |

| 2 | Sri | 20000 | 23 | Female | Analytics |

| 3 | Vish | 24000 | 24 | Female | Developer |

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

6 rows in set (0.02 sec)

mysql> select \* from employee ORDER BY e\_name DSC;

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 'DSC' at line 1

mysql>

mysql> select \* from employee ORDER BY e\_gender;

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

| e\_id | e\_name | e\_salary | e\_age | e\_gender | e\_dept |

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

| 2 | Sri | 20000 | 23 | Female | Analytics |

| 3 | Vish | 24000 | 24 | Female | Developer |

| 4 | Kothai | 35000 | 25 | Female | Developer |

| 6 | Diya | 45000 | 30 | Female | Sales |

| 1 | Sam | 25000 | 24 | Male | Support |

| 5 | Madhan | 50000 | 27 | Male | Manager |

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

6 rows in set (0.00 sec)

mysql> select \* from employee ORDER BY e\_age;

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

| e\_id | e\_name | e\_salary | e\_age | e\_gender | e\_dept |

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

| 2 | Sri | 20000 | 23 | Female | Analytics |

| 1 | Sam | 25000 | 24 | Male | Support |

| 3 | Vish | 24000 | 24 | Female | Developer |

| 4 | Kothai | 35000 | 25 | Female | Developer |

| 5 | Madhan | 50000 | 27 | Male | Manager |

| 6 | Diya | 45000 | 30 | Female | Sales |

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

6 rows in set (0.00 sec)

mysql> select \* from employee ORDER BY e\_name DESC;

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

| e\_id | e\_name | e\_salary | e\_age | e\_gender | e\_dept |

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

| 3 | Vish | 24000 | 24 | Female | Developer |

| 2 | Sri | 20000 | 23 | Female | Analytics |

| 1 | Sam | 25000 | 24 | Male | Support |

| 5 | Madhan | 50000 | 27 | Male | Manager |

| 4 | Kothai | 35000 | 25 | Female | Developer |

| 6 | Diya | 45000 | 30 | Female | Sales |

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

6 rows in set (0.00 sec)

mysql> select \* from employee ORDER BY e\_age DESC;

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

| e\_id | e\_name | e\_salary | e\_age | e\_gender | e\_dept |

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

| 6 | Diya | 45000 | 30 | Female | Sales |

| 5 | Madhan | 50000 | 27 | Male | Manager |

| 4 | Kothai | 35000 | 25 | Female | Developer |

| 1 | Sam | 25000 | 24 | Male | Support |

| 3 | Vish | 24000 | 24 | Female | Developer |

| 2 | Sri | 20000 | 23 | Female | Analytics |

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

6 rows in set (0.00 sec)

mysql> select COUNT(\*);

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

| COUNT(\*) |

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

| 1 |

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

1 row in set (0.01 sec)

mysql> select \* from employee ORDER BY e\_name ASC HAVING MIN(e\_salary) > 25000;

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 'HAVING MIN(e\_salary) > 25000' at line 1

mysql> select e\_name, MIN(e\_salary) FROM employee GROUP BY e\_id;

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

| e\_name | MIN(e\_salary) |

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

| Sam | 25000 |

| Sri | 20000 |

| Vish | 24000 |

| Kothai | 35000 |

| Madhan | 50000 |

| Diya | 45000 |

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

6 rows in set (0.01 sec)

mysql> SELECT MIN(e\_salary) AS min\_salary FROM employee;

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

| min\_salary |

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

| 20000 |

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

1 row in set (0.12 sec)

mysql> SELECT e\_id,e\_name MIN(e\_salary) AS min\_salary FROM employee;

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 'MIN(e\_salary) AS min\_salary FROM employee' at line 1

mysql> SELECT MAX(e\_salary) AS max\_salary FROM employee;

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

| max\_salary |

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

| 50000 |

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

1 row in set (0.00 sec)

mysql> select \* from employee;

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

| e\_id | e\_name | e\_salary | e\_age | e\_gender | e\_dept |

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

| 1 | Sam | 25000 | 24 | Male | Support |

| 2 | Sri | 20000 | 23 | Female | Analytics |

| 3 | Vish | 24000 | 24 | Female | Developer |

| 4 | Kothai | 35000 | 25 | Female | Developer |

| 5 | Madhan | 50000 | 27 | Male | Manager |

| 6 | Diya | 45000 | 30 | Female | Sales |

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

6 rows in set (0.00 sec)

mysql> SELECT e\_id,e\_name MIN(e\_salary) AS min\_salary FROM employee GROUP BY e\_dept;

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 'MIN(e\_salary) AS min\_salary FROM employee GROUP BY e\_dept' at line 1

mysql> SELECT MIN(e\_salary) AS min\_salary FROM employee GROUP BY e\_dept;

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

| min\_salary |

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

| 20000 |

| 24000 |

| 50000 |

| 45000 |

| 25000 |

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

5 rows in set (0.00 sec)

mysql> SELECT e\_dept, MIN(e\_salary) as min\_salary FROM employee GROUP BY e\_dept;

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

| e\_dept | min\_salary |

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

| Analytics | 20000 |

| Developer | 24000 |

| Manager | 50000 |

| Sales | 45000 |

| Support | 25000 |

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

5 rows in set (0.00 sec)

mysql> select \* from employee;

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

| e\_id | e\_name | e\_salary | e\_age | e\_gender | e\_dept |

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

| 1 | Sam | 25000 | 24 | Male | Support |

| 2 | Sri | 20000 | 23 | Female | Analytics |

| 3 | Vish | 24000 | 24 | Female | Developer |

| 4 | Kothai | 35000 | 25 | Female | Developer |

| 5 | Madhan | 50000 | 27 | Male | Manager |

| 6 | Diya | 45000 | 30 | Female | Sales |

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

6 rows in set (0.00 sec)

mysql> select \* FROM e\_name ORDER BY RAND() LIMIT 2;

ERROR 1146 (42S02): Table 'mnc.e\_name' doesn't exist

mysql> select \* FROM employee ORDER BY RAND() LIMIT 2;

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

| e\_id | e\_name | e\_salary | e\_age | e\_gender | e\_dept |

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

| 5 | Madhan | 50000 | 27 | Male | Manager |

| 2 | Sri | 20000 | 23 | Female | Analytics |

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

2 rows in set (0.06 sec)

mysql> select \* FROM employee ORDER BY e\_name,e\_gender;

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

| e\_id | e\_name | e\_salary | e\_age | e\_gender | e\_dept |

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

| 6 | Diya | 45000 | 30 | Female | Sales |

| 4 | Kothai | 35000 | 25 | Female | Developer |

| 5 | Madhan | 50000 | 27 | Male | Manager |

| 1 | Sam | 25000 | 24 | Male | Support |

| 2 | Sri | 20000 | 23 | Female | Analytics |

| 3 | Vish | 24000 | 24 | Female | Developer |

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

6 rows in set (0.00 sec)

mysql>