Y:\bin>mysql -u root -p

Enter password: \*\*\*\*

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

Your MySQL connection id is 1

Server version: 5.0.67-community-nt MySQL Community Edition (GPL)

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> use student;

Database changed

mysql> select \* from lab\_grades;

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

| Std\_ID | Name | Major | Section | Days\_present | Project\_marks | CGPA | Submission\_date |

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

| s001 | Abir | CS | 1 | 10 | 18.5 | 3.91 | 2018-09-15 |

| s019 | Naima | CSE | 2 | 12 | 20 | 3.70 | 2018-08-14 |

| s002 | Nafis | CSE | 1 | 12 | 20 | 3.86 | 2018-08-15 |

| s003 | Tasneem | CS | 1 | 8 | 18 | 3.57 | 2018-09-18 |

| s004 | Nahid | ECE | 2 | 7 | 16.5 | 3.25 | 2018-08-20 |

| s005 | Arafat | CS | 2 | 11 | 20 | 4.00 | 2018-09-13 |

| s006 | Tasneem | CSE | 1 | 12 | 17.5 | 3.70 | 2018-08-15 |

| s007 | Muhtadi | ECE | 1 | 10 | 19 | 3.67 | 2018-09-16 |

| s008 | Farhana | CSE | 2 | 6 | 15 | 2.67 | 2018-08-16 |

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

9 rows in set (0.06 sec)

mysql> select min(CGPA) from lab\_grades;

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

| min(CGPA) |

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

| 2.67 |

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

1 row in set (0.00 sec)

mysql> select count(\*) as total\_students,avg(Project\_marks) as average\_project\_marks from lab\_grades;

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

| total\_students | average\_project\_marks |

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

| 9 | 18.277777777778 |

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

1 row in set (0.00 sec)

mysql> select sum(Days\_present) from lab\_grades;

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

| sum(Days\_present) |

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

| 88 |

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

1 row in set (0.00 sec)

mysql> select min(CGPA) as minimun\_CGPA from lab\_grades;

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

| minimun\_CGPA |

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

| 2.67 |

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

1 row in set (0.00 sec)

mysql> select major,min(CGPA) as min\_CGPA,max(CGPA) as max\_CGPA from lab\_grades group by major;

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

| major | min\_CGPA | max\_CGPA |

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

| CS | 3.57 | 4.00 |

| CSE | 2.67 | 3.86 |

| ECE | 3.25 | 3.67 |

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

3 rows in set (0.00 sec)

mysql> select major,count(\*) from lab\_grades group by major;

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

| major | count(\*) |

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

| CS | 3 |

| CSE | 4 |

| ECE | 2 |

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

3 rows in set (0.01 sec)

mysql> select major,min(CGPA) as min\_CGPA,max(CGPA) as max\_CGPA from lab\_grades group by major having count(\*)>=3;

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

| major | min\_CGPA | max\_CGPA |

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

| CS | 3.57 | 4.00 |

| CSE | 2.67 | 3.86 |

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

2 rows in set (0.00 sec)

mysql> select major,min(CGPA) as min\_CGPA,max(CGPA) as max\_CGPA from lab\_grades where Submission\_date<="2018-09-15" group by major;

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

| major | min\_CGPA | max\_CGPA |

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

| CS | 3.91 | 4.00 |

| CSE | 2.67 | 3.86 |

| ECE | 3.25 | 3.25 |

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

3 rows in set (0.00 sec)

mysql> select Name from lab\_grades where Project\_marks=(select max(Project\_marks) from lab\_grades);

+--------+

| Name |

+--------+

| Naima |

| Nafis |

| Arafat |

+--------+

3 rows in set (0.00 sec)

mysql> select major,name,days\_present from lab\_grades where (major,days\_present) in (select major,min(Days\_present) from lab\_grades group by major);

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

| major | name | days\_present |

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

| CS | Tasneem | 8 |

| ECE | Nahid | 7 |

| CSE | Farhana | 6 |

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

3 rows in set (0.00 sec)

mysql> select major,name,CGPA,days\_present from lab\_grades where (major,days\_present) in (select major,min(Days\_present) from lab\_grades group by major);

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

| major | name | CGPA | days\_present |

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

| CS | Tasneem | 3.57 | 8 |

| ECE | Nahid | 3.25 | 7 |

| CSE | Farhana | 2.67 | 6 |

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

3 rows in set (0.00 sec)

mysql> select major,name,CGPA,days\_present from lab\_grades where (days\_present) in (select ,min(Days\_present) from lab\_grades group by major);

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(Days\_present) from lab\_grades group by major)' at line 1

mysql> select major,name,CGPA,days\_present from lab\_grades where (days\_present) in (select min(Days\_present) from lab\_grades group by major);

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

| major | name | CGPA | days\_present |

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

| CS | Tasneem | 3.57 | 8 |

| ECE | Nahid | 3.25 | 7 |

| CSE | Farhana | 2.67 | 6 |

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

3 rows in set (0.01 sec)

mysql> select \* from lab\_grades where major="CSE" and CGPA>any (Select CGPA from lab\_grades where Major="CS");

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

| Std\_ID | Name | Major | Section | Days\_present | Project\_marks | CGPA | Submission\_date |

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

| s019 | Naima | CSE | 2 | 12 | 20 | 3.70 | 2018-08-14 |

| s002 | Nafis | CSE | 1 | 12 | 20 | 3.86 | 2018-08-15 |

| s006 | Tasneem | CSE | 1 | 12 | 17.5 | 3.70 | 2018-08-15 |

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

3 rows in set (0.00 sec)

mysql> select \* from lab\_grades where major="CSE" and CGPA>all (Select CGPA from lab\_grades where Major="CS");

Empty set (0.00 sec)

mysql> select distinct major from lab\_grades L1 where exists (select \* from lab\_grades L2 where L2.major=L1.major and L2.CGPA<3.7);

+-------+

| major |

+-------+

| CS |

| CSE |

| ECE |

+-------+

3 rows in set (0.00 sec)

mysql> select distinct major from lab\_grades L1 where not exists (select \* from lab\_grades L2 where L2.major=L1.major and L2.CGPA<3.7);

Empty set (0.00 sec)

mysql> Select Name from Lab\_Grades L1 where not exists (Select \* from Lab\_Grades L2 where L2.Std\_ID!=L1.Std\_ID and L2.Project\_marks>L1.Project\_marks);

+--------+

| Name |

+--------+

| Naima |

| Nafis |

| Arafat |

+--------+

3 rows in set (0.00 sec)

mysql> Select Name from Lab\_Grades L1 where not exists (Select \* from Lab\_Grades L2 where L2.Std\_ID!=L1.Std\_ID and L2.Project\_marks>=L1.Project\_marks);

Empty set (0.00 sec)

mysql> select count(\*) from lab\_grades where project\_marks=(select max(project\_marks) from lab\_grades);

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

| count(\*) |

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

| 3 |

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

1 row in set (0.00 sec)

mysql> select count(\*) from lab\_grades where project\_marks>all (select project\_marks from lab\_grades);

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

| count(\*) |

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

| 0 |

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

1 row in set (0.00 sec)

mysql> select count(\*) from lab\_grades where project\_marks>any (select project\_marks from lab\_grades);

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

| count(\*) |

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

| 8 |

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

1 row in set (0.00 sec)

mysql> select major from lab\_grades by major having count(\*)>=all (select count(\*) from lab\_grades group by major);

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 'by major having count(\*)>=all (select count(\*) from lab\_grades group by major)' at line 1

mysql> select major from lab\_grades group by major having count(\*)>=all (select count(\*) from lab\_grades group by major);

+-------+

| major |

+-------+

| CSE |

+-------+

1 row in set (0.00 sec)