mysql> create table students(Sr\_no int primary key Auto\_increment, Name varchar(50), Marks int );

Query OK, 0 rows affected (0.09 sec)

mysql> insert into students(name, marks)values("Reena", 200),("Mona", 200), ("Rohan", 100), ("Sona", 150),("Uma", 199),("Vamika", 201),("Rahul", 199);

Query OK, 7 rows affected (0.01 sec)

Records: 7 Duplicates: 0 Warnings: 0

mysql> explain students;

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

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

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

| Sr\_no | int | NO | PRI | NULL | auto\_increment |

| Name | varchar(50) | YES | | NULL | |

| Marks | int | YES | | NULL | |

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

3 rows in set (0.01 sec)

mysql> select \* from students;

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

| Sr\_no | Name | Marks |

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

| 1 | Reena | 200 |

| 2 | Mona | 200 |

| 3 | Rohan | 100 |

| 4 | Sona | 150 |

| 5 | Uma | 199 |

| 6 | Vamika | 201 |

| 7 | Rahul | 199 |

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

7 rows in set (0.00 sec)

1. COUNT(\*)

mysql> select count(\*) as marks\_count from students;

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

| marks\_count |

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

| 7 |

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

1 row in set (0.01 sec)

mysql> select count(\*) as name\_count from students;

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

| name\_count |

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

| 7 |

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

1 row in set (0.00 sec)

mysql> insert into students values(8, "Rahul", 200);

Query OK, 1 row affected (0.01 sec)

mysql> select count(\*) as name\_count from students;

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

| name\_count |

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

| 8 |

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

1 row in set (0.01 sec)

1. SUM

mysql> select sum(marks) as totalMarksOfStudent from students;

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

| totalMarksOfStudent |

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

| 1449 |

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

1 row in set (0.00 sec)

1. Avg

mysql> select avg(salary) as AveOfTotalSalary from students;

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

mysql> select avg(marks) as AveOfTotalSalary from students;

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

| AveOfTotalSalary |

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

| 181.1250 |

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

1 row in set (0.00 sec)

1. Min

mysql> select min(marks) as Minmarks from students;

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

| Minmarks |

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

| 100 |

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

1 row in set (0.00 sec)

1. Max

mysql> select max(marks) as maxMarks from students;

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

| maxMarks |

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

| 201 |

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

1 row in set (0.00 sec)

1. Group\_concat

mysql> select group\_concat(name) as GroupName from students;

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

| GroupName |

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

| Reena,Mona,Rohan,Sona,Uma,Vamika,Rahul,Rahul |

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

1 row in set (0.01 sec)

1. Group by Cluse

mysql> select name,count(\*) as student\_count from students group by name;

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

| name | student\_count |

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

| Reena | 1 |

| Mona | 1 |

| Rohan | 1 |

| Sona | 1 |

| Uma | 1 |

| Vamika | 1 |

| Rahul | 2 |

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

7 rows in set (0.00 sec)

mysql> select marks, count(\*) as Marksrepeated from students group by marks;

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

| marks | Marksrepeated |

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

| 200 | 3 |

| 100 | 1 |

| 150 | 1 |

| 199 | 2 |

| 201 | 1 |

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

5 rows in set (0.00 sec)

mysql> select marks, count(\*) as marksrepeated from students group by marks;

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

| marks | marksrepeated |

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

| 200 | 3 |

| 100 | 1 |

| 150 | 1 |

| 199 | 2 |

| 201 | 1 |

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

5 rows in set (0.00 sec)

mysql> select sr\_no, count(\*) as TotalStudent from students group by Sr\_no;

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

| sr\_no | TotalStudent |

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

| 1 | 1 |

| 2 | 1 |

| 3 | 1 |

| 4 | 1 |

| 5 | 1 |

| 6 | 1 |

| 7 | 1 |

| 8 | 1 |

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

8 rows in set (0.00 sec)

1. Having Clause

mysql> select marks, count(\*) as total\_marks\_count from students group by marks having total\_marks\_count<5;

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

| marks | total\_marks\_count |

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

| 200 | 3 |

| 100 | 1 |

| 150 | 1 |

| 199 | 2 |

| 201 | 1 |

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

5 rows in set (0.00 sec)

mysql> select marks, count(\*) as total\_marks\_count from students group by marks having total\_marks\_count>1;

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

| marks | total\_marks\_count |

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

| 200 | 3 |

| 199 | 2 |

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

2 rows in set (0.00 sec)