**MySQL**

**Q1.Create a table with suitable constraints and fill the table with following dataset.**

mysql> select \* from teacher;

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

| t\_id | t\_name | department | date\_admission | salary | gender |

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

| 1 | Godwin | computer | 2010-01-15 | 12000.00 | m |

| 2 | Athira | history | 2015-05-10 | 9500.00 | f |

| 3 | Alwin | computer | 2013-11-20 | 11000.00 | m |

| 4 | Anu | Physics | 2014-03-05 | 9800.00 | f |

| 5 | Sreejith | maths | 2015-09-30 | 10500.00 | m |

| 6 | Sruthy | computer | 2018-07-12 | 11500.00 | f |

| 7 | Jees | maths | 2017-04-25 | 10200.00 | m |

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

7 rows in set (0.00 sec)

**Q2. Write an SQL Query to select all the information of teachers in computer department.**

mysql> select \* from teacher where department = "computer";

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

| t\_id | t\_name | department | date\_admission | salary | gender |

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

| 1 | Godwin | computer | 2010-01-15 | 12000.00 | m |

| 3 | Alwin | computer | 2013-11-20 | 11000.00 | m |

| 6 | Sruthy | computer | 2018-07-12 | 11500.00 | f |

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

3 rows in set (0.00 sec)

**Q3. Write a query to list the name of female teachers in History department.**

mysql> select \* from teacher where department = "history" and gender = "f";

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

| t\_id | t\_name | department | date\_admission | salary | gender |

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

| 2 | Athira | history | 2015-05-10 | 9500.00 | f |

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

1 row in set (0.00 sec)

**Q4. list all names of teachers with date of admission in ascending order**

mysql> select t\_name,date\_admission from teacher order by date\_admission Asc;

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

| t\_name | date\_admission |

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

| Godwin | 2010-01-15 |

| Alwin | 2013-11-20 |

| Anu | 2014-03-05 |

| Athira | 2015-05-10 |

| Sreejith | 2015-09-30 |

| Jees | 2017-04-25 |

| Sruthy | 2018-07-12 |

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

7 rows in set (0.00 sec)

**Q5. display Teacher's name, Department, and Salary of male teacher.**

mysql> select t\_name,department,salary from teacher where gender="m";

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

| t\_name | department | salary |

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

| Godwin | computer | 12000.00 |

| Alwin | computer | 11000.00 |

| Sreejith | maths | 10500.00 |

| Jees | maths | 10200.00 |

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

4 rows in set (0.00 sec)

**Q6. To count the number of items whose salary is less than 10,000**

mysql> select count(\*) from teacher where salary<10000;

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

| count(\*) |

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

| 2 |

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

1 row in set (0.01 sec)

**Q7. To insert a new record in the Teacher table with the following data: 8, "Mersha", "computer" (1/1/2000), 12000,"m"**

mysql> insert into teacher (t\_id, t\_name, department, date\_admission, salary, gender)

-> values (8, 'mersha', 'computer', '2000-01-01', 12000, 'm');

Query OK, 1 row affected (0.00 sec)

mysql> select \* from teacher;

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

| t\_id | t\_name | department | date\_admission | salary | gender |

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

| 1 | Godwin | computer | 2010-01-15 | 12000.00 | m |

| 2 | Athira | history | 2015-05-10 | 9500.00 | f |

| 3 | Alwin | computer | 2013-11-20 | 11000.00 | m |

| 4 | Anu | Physics | 2014-03-05 | 9800.00 | f |

| 5 | Sreejith | maths | 2015-09-30 | 10500.00 | m |

| 6 | Sruthy | computer | 2018-07-12 | 11500.00 | f |

| 7 | Jees | maths | 2017-04-25 | 10200.00 | m |

| 8 | mersha | computer | 2000-01-01 | 12000.00 | m |

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

8 rows in set (0.00 sec)

**Q8. List the teacher detail who is getting the minimum salary.**

mysql> select \* from teacher where salary = (select min(salary) from teacher);

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

| t\_id | t\_name | department | date\_admission | salary | gender |

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

| 2 | Athira | history | 2015-05-10 | 9500.00 | f |

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

1 row in set (0.00 sec)

**Q9. Last the teacher detail who is getting the second minimum salary.**

mysql> select \* from teacher where salary = (select min(salary) from teacher where salary not in (select min(salary) from teacher));

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

| t\_id | t\_name | department | date\_admission | salary | gender |

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

| 4 | Anu | Physics | 2014-03-05 | 9800.00 | f |

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

1 row in set (0.01 sec)

**Q10. List down the average salary of the teachers belongs to History department**

mysql> SELECT AVG(Salary) AS AverageSalary FROM Teacher WHERE Department = 'History';

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

| AverageSalary |

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

| 9500.000000 |

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

1 row in set (0.00 sec)