mysql> show databases;

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

| Database |

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

| amazone |

| boats |

| department |

| employe |

| information\_schema |

| mysql |

| performance\_schema |

| school |

| score |

| student |

| students |

| sys |

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

12 rows in set (0.02 sec)

mysql> use school;

Database changed

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

Answer:

mysql> desc employe;

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

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

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

| admission | int | YES | | NULL | |

| Name | char(200) | YES | | NULL | |

| department | char(200) | YES | | NULL | |

| salary | int | YES | | NULL | |

| gender | char(200) | YES | | NULL | |

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

5 rows in set (0.01 sec)

mysql> insert into employe(admission,Name,department,salary,gender)values(123,'alwin','arts',10000,'male');

Query OK, 1 row affected (0.04 sec)

mysql> insert into employe(admission,Name,department,salary,gender)values(124,'anu','cyber',90000,'female');

Query OK, 1 row affected (0.01 sec)

mysql> insert into employe(admission,Name,department,salary,gender)values(125,'godwin','english',20000,'male');

Query OK, 1 row affected (0.01 sec)

mysql> insert into employe(admission,Name,department,salary,gender)values(126,'jeez','biology',30000,'male');

Query OK, 1 row affected (0.01 sec)

mysql> insert into employe(admission,Name,department,salary,gender)values(127,'athira','chemistry',80000,'female');

Query OK, 1 row affected (0.01 sec)

mysql> select \* from employe;

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

| admission | Name | department | salary | gender |

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

| 123 | alwin | arts | 10000 | male |

| 124 | anu | cyber | 90000 | female |

| 125 | godwin | english | 20000 | male |

| 126 | jeez | biology | 30000 | male |

| 127 | athira | chemistry | 80000 | female |

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

5 rows in set (0.00 sec)

mysql> insert into employe(admission,Name,department,salary,gender)values(124,'kailas','history',40000,'male');

Query OK, 1 row affected (0.01 sec)

mysql> select \* from employe;

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

| admission | Name | department | salary | gender |

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

| 123 | alwin | arts | 10000 | male |

| 124 | anu | cyber | 90000 | female |

| 125 | godwin | english | 20000 | male |

| 126 | jeez | biology | 30000 | male |

| 127 | athira | chemistry | 80000 | female |

| 124 | kailas | history | 40000 | male |

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

6 rows in set (0.00 sec)

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

Answer:

mysql> select \* from employe where department like'%history';

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

| admission | Name | department | salary | gender |

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

| 124 | kailas | history | 40000 | male |

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

1 row in set (0.00 sec)

Q3. list all name of teachers with date of admission in ascending order

Answer:

mysql> select \* from employe order by admission ASC;

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

| admission | Name | department | salary | gender |

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

| 123 | alwin | arts | 10000 | male |

| 124 | anu | cyber | 90000 | female |

| 124 | kailas | history | 40000 | male |

| 125 | godwin | english | 20000 | male |

| 126 | jeez | biology | 30000 | male |

| 127 | athira | chemistry | 80000 | female |

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

6 rows in set (0.00 sec)

Q4. Write a query to list the name of female teachers in History department.

Answer:

mysql> select \* from employe where gender like'%male';

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

| admission | Name | department | salary | gender |

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

| 123 | alwin | arts | 10000 | male |

| 124 | anu | cyber | 90000 | female |

| 125 | godwin | english | 20000 | male |

| 126 | jeez | biology | 30000 | male |

| 127 | athira | chemistry | 80000 | female |

| 124 | kailas | history | 40000 | male |

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

6 rows in set (0.00 sec)

mysql> select \* from employe where gender like'male';

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

| admission | Name | department | salary | gender |

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

| 123 | alwin | arts | 10000 | male |

| 125 | godwin | english | 20000 | male |

| 126 | jeez | biology | 30000 | male |

| 124 | kailas | history | 40000 | male |

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

4 rows in set (0.00 sec)

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

Answer:

mysql> select \* from employe where salary like'10000';

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

| admission | Name | department | salary | gender |

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

| 123 | alwin | arts | 10000 |

male |

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

1 row in set (0.00 sec)

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

Answer:

mysql> insert into employe(admission,Name,department,salary,gender)values(128,'mersha','computer',12000,'male');

Query OK, 1 row affected (0.01 sec)

mysql> select \* from employe;

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

| admission | Name | department | salary | gender |

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

| 123 | alwin | arts | 10000 | male |

| 124 | anu | cyber | 90000 | female |

| 125 | godwin | english | 20000 | male |

| 126 | jeez | biology | 30000 | male |

| 127 | athira | chemistry | 80000 | female |

| 124 | kailas | history | 40000 | male |

| 128 | mersha | computer | 12000 | male |

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

7 rows in set (0.00 sec)

r ''min'' at line 1

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

Answer:

mysql> select min(salary) from employe;

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

| min(salary) |

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

| 10000 |

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

1 row in set (0.01 sec)

Q9. List the teacher detail who is getting the second minimum salary.

Answer:

mysql> select \* from employe m where 2 = (select count(distinct salary ) fro

m employe where salary <= m.salary);

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

| admission | Name | department | salary | gender |

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

| 128 | mersha | computer | 12000 | male |

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

1 row in set (0.00 sec)

Q10.Average salary of teacher belong to history department.

Answer:

mysql> select avg(salary) from employe where department='history';

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

| avg(salary) |

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

| 40000.0000 |

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

1 row in set (0.00 sec)