Q1 Consider Employee table with following attributes EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | JOB_ID | SALARY | MANAGER_ID | DEPARTMENT_ID | Solve the following

1. Write a query to get the minimum salary from employees table
2. Write a query to get the departmentwise minimum salary from employees table
3. Write a query to get the average salary and number of employees working the department 90.
4. Write a query to get the average salary and number of employees working for all departments
5. Write a query to get the difference between the highest and lowest salaries.
6. Write a query to get the average salary for all departments employing more than 10 employees..

CREATE TABLE EMPLOYEE(EMPID INT(10), FIRSTNAME VARCHAR(20), LASTNAME VARCHAR(20), EMAIL VARCHAR(20), PHONENUMBER INT(10), JOBID VARCHAR(10), SALARY FLOAT(20), MANAGERID INT(10), DEPARTMENTID INT(10));

INSERT INTO EMPLOYEE VALUES(100,'DAVID','AUSTIN','DA@GMAIL.COM',987678,'DA1',50000.00,1,11);

INSERT INTO EMPLOYEE VALUES(102,'STEVEN','KING','SK@GMAIL.COM',922428,'SK2',60000.00,2,22);

EMPID	FIRSTNAME	LASTNAME	EMAIL	PHONENUMBER	JOBID	SALARY	MANAGERID	DEPARTMENTID
100	DAVID	AUSTIN	DA@GMAIL.COM	987678	DA1	50000	1	11
102	STEVEN	KING	SK@GMAIL.COM	922428	SK2	60000	2	22
103	BRUCE	LEE	BL@GMAIL.COM	977428	BL3	80000	3	33
104	ELON	MUSK	EM@GMAIL.COM	900028	EM4	100000	4	44

1. Write a query to get the minimum salary from employees table

SELECT MAX(SALARY), MIN(SALARY) FROM EMPLOYEE;

✓ Showing rows 0 - 0 (1 total, Query took 0.0028 seconds.)

SELECT MAX(SALARY), MIN(SALARY) FROM EMPLOYEE;

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾

Extra options

MAX(SALARY)	MIN(SALARY)
100000	50000

2. Write a query to get the departmentwise minimum salary from employees table

SELECT DEPARTMENTID, MAX(SALARY) AS MAXSALARY, MIN(SALARY) AS MINSALARY FROM EMPLOYEE GROUP BY DEPARTMENTID;

✔ Showing rows 0 - 3 (4 total, Query took 0.0045 seconds.)

```
SELECT DEPARTMENTID, MAX(SALARY) AS MAXSALARY, MIN(SALARY) AS
MINSALARY FROM EMPLOYEE GROUP BY DEPARTMENTID;
```
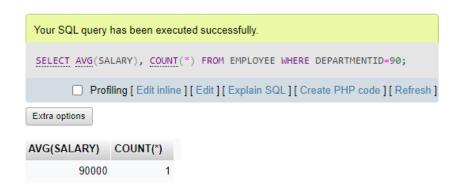
☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾

Extra options

DEPARTMENTID	MAXSALARY	MINSALARY
11	50000	50000
22	60000	60000
33	80000	80000
44	100000	100000

3. Write a query to get the average salary and number of employees working the department 90

SELECT AVG(SALARY), COUNT(*) FROM EMPLOYEE WHERE DEPARTMENTID=90;

Your SQL query has been executed successfully.

```
SELECT AVG(SALARY), COUNT(*) FROM EMPLOYEE WHERE DEPARTMENTID=90;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Extra options

AVG(SALARY)	COUNT(*)
90000	1

4. Write a query to get the average salary and number of employees working for all departments

SELECT AVG(SALARY), COUNT(*) FROM EMPLOYEE GROUP BY DEPARTMENTID;

✔ Showing rows 0 - 4 (5 total, Query took 0.0052 seconds.)

```
SELECT AVG(SALARY), COUNT(*) FROM EMPLOYEE GROUP BY DEPARTMENTID;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾

Extra options

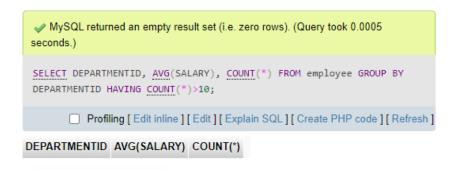| AVG(SALARY)	COUNT(*)
50000	1
60000	1
80000	1
100000	1
90000	1

5. Write a query to get the difference between the highest and lowest salaries.

SELECT MAX(SALARY)-MIN(SALARY) DIFFERENCE FROM employee;

✔ Showing rows 0 - 0 (1 total, Query took 0.0008 seconds.)

`SELECT MAX(SALARY)-MIN(SALARY) DIFFERENCE FROM employee;`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾

Extra options

DIFFERENCE
50000

6. Write a query to get the average salary for all departments employing more than 10 employees.

SELECT DEPARTMENTID, AVG(SALARY), COUNT(*) FROM employee GROUP BY DEPARTMENTID HAVING COUNT()>10;

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0005 seconds.)

`SELECT DEPARTMENTID, AVG(SALARY), COUNT(*) FROM employee GROUP BY DEPARTMENTID HAVING COUNT(*)>10;`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

DEPARTMENTID	AVG(SALARY)	COUNT(*)

Colab paid products - Cancel contracts here