



Quiz and Lab Assessment (CSE311L Section 2 – Fall'20)

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Marks-50, Time – 40 minutes (You need to answer all questions)

Instructions and Notes -

1. You have to create, insert each table value using “**VS Code**”. You must have to **test your connection**.
2. No need to write answer in this pdf, submit your **code** and **full window screenshot** in each question folder mentioning the question number. Without the screenshot, you'll get **50%** marks.
3. For VS code, submit the “**.php**” Extension file and for Xampp file, use **the Query results operations -> print** option to generate pdf file, rename the file according to answer number and submit.

01:

Write a query that displays employee name and the minimum, maximum, sum, and average salary for each job type.

```
SELECT job_id, ROUND(MAX(salary),0) "Maximum",  
ROUND(MIN(salary),0) "Minimum",  
ROUND(SUM(salary),0) "Sum",  
ROUND(AVG(salary),0) "Average"  
FROM employees  
GROUP BY job_id;
```

02:

Display the employee name and manager number and the salary of the highest paid employee for that manager. Exclude anyone whose manager is not known. Exclude any groups where the minimum salary is \$6,000 or less. Sort the output in descending order of salary.

```
SELECT manager_id, MIN(salary)  
FROM employees  
WHERE manager_id IS NOT NULL  
GROUP BY manager_id  
HAVING MIN(salary) > 6000  
ORDER BY MIN(salary) DESC;
```

03:

Write a query to display each department's name, location, number of employees, and the average salary for all employees in that department. Label the columns Name, Location, Number of People, and Salary, respectively. Round the average salary to two decimal places.

```
SELECT d.department_name "Name", d.location_id "Location ",  
COUNT(*) "Number of People",  
ROUND(AVG(salary),2) "Salary"  
FROM employees e, departments d  
WHERE e.department_id = d.department_id  
GROUP BY d.department_name, d.location_id;
```

04:

Write a query to display the name and number of people with the same job.

```
SELECT job_id, COUNT(*)  
FROM employees  
GROUP BY job_id;
```

05:

Display the last name, salary, and commission for all employees who doesn't earn commissions. Sort data in descending order of salary and commissions.

```
SELECT last_name, salary, commission_pct  
FROM employees  
WHERE commission_pct IS NOT NULL  
ORDER BY salary DESC, commission_pct DESC;
```