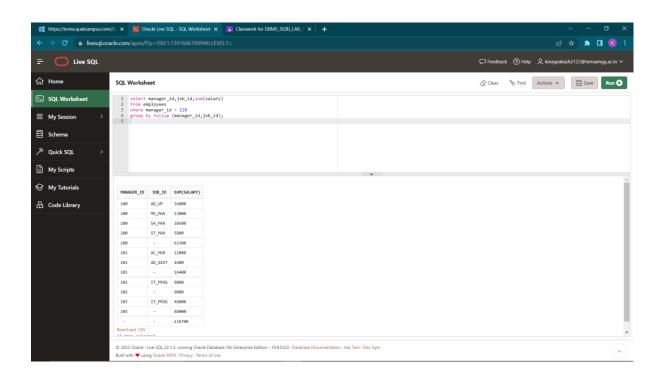
LAB ASSIGNMENT -11

- 1. Write a query to display the following foe those employees whose manager Id is less than 120:
 - Manager ID
 - Job Id and total salary for every job ID for employees who report to the same manager
 - Total salary of those managers
 - Total salary of those managers, irrespective of the job IDs.

QUERY-

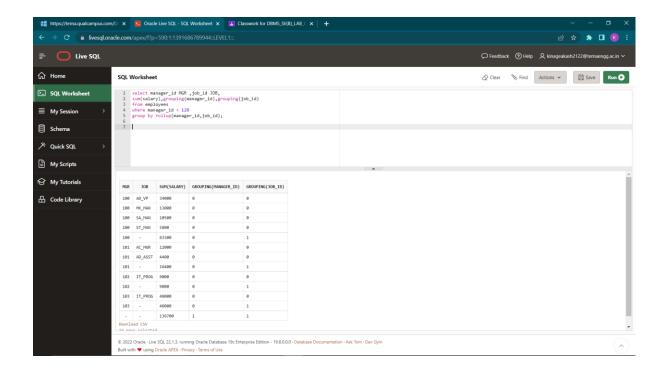
select manager_id,job_id,sum(salary) from employees where manager_id < 120 group by rollup (manager_id,job_id);



2. Observe the output from question 1. Write a query using the GROUPING function to determine whether the NULL values in the column corresponding to the GROUP BY expressions are caused by the ROLLUP operation.

Query:

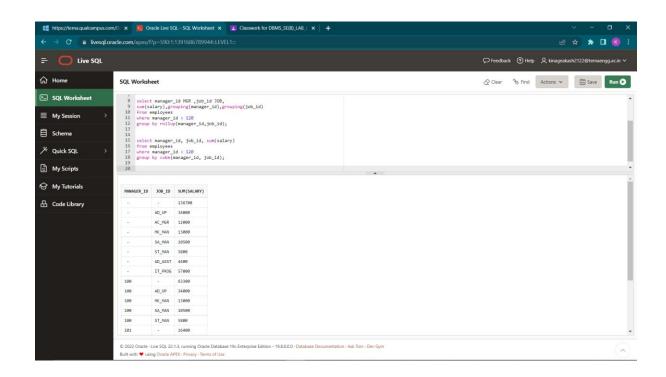
```
select manager_id MGR ,job_id JOB,
sum(salary),grouping(manager_id),grouping(job_id)
from employees
where manager_id < 120
group by rollup(manager_id,job_id);
```



- 3. Write a query to display the following for those employees whose manager Id is less than 120:
 - Manager Id
 - Job and total salaries for every job for employees who report to the same manager
 - Total salary of those managers
 - Cross-tabulation values to display the total salary for every job, irrespective of the manager.
 - Total salary irrespective of all job titles.

Query:

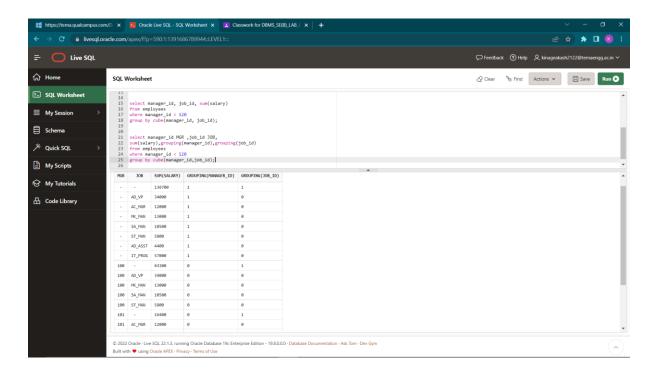
select manager_id, job_id, sum(salary) from employees where manager_id < 120 group by cube(manager_id, job_id);



4. Observe the output from question 3. Write a query using the GROUPING function to determine whether the NULL values in the columns corresponding to the GROUP BY expressions are caused by the CUBE operation.

Query:

select manager_id MGR ,job_id JOB, sum(salary),grouping(manager_id),grouping(job_id) from employees where manager_id < 120 group by cube(manager_id,job_id);



- 5. Using GROUPING SETS, write a query to display the following groupings:
 - department_id, manager-id, job-ib
 - department_id, job-id
 - manager_id , job_id

The query should calculate the sum of the salaries for each of these groups.

Query:

select department_id, manager_id, job_id, SUM(salary) from employees group by grouping sets ((department_id, manager_id, job_id), (department_id, job_id), (manager_id, job_id));

