

Assessment- 3 Database Systems and Design [CSE5011]

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EXERCISE 5 SUBQUERY AND VIEW

Aim: to understand the concept of Sub queries and logical tables in oracle.

1. Find the employee who is getting highest salary in the department research

			1162															
SELECT	* FROM E	MPLOYEE	WHERE SALA	RY IN(SELE	CT MAX(SA	LARY)FROM	EMPLOYEE	WHERE D	DEPT_NO	IN(SELECT	d.DEPT	NO FROM	DEPT (d WHERE	d.DEPT	NAME='	Research	ı'));
Results	Explain	Describe	Saved SQL	History														
_	110																	
no data f	ound																	
no udid n	oullu																	

2. Find the employees who earn the same salary as the minimum salary for each Department

Results Explain Describe Saved SQL History

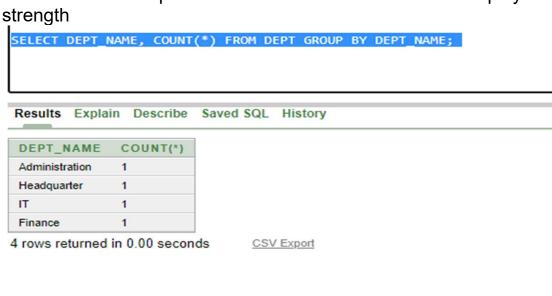
FIRST_NAME MID_NAME LAST_NAME SSN_NUMBER BIRTHDAY ADDRESS SEX SALARY SUPERVISOR_SSN DEPT_NO John B Smith 678 09-JAN-87 Madurai M 30000 124 1

1 rows returned in 0.00 seconds CSV Export

3. Find the employee whose salary is greater than average salary of department 2



4.List out all the department names with their individual employees

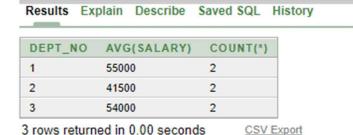


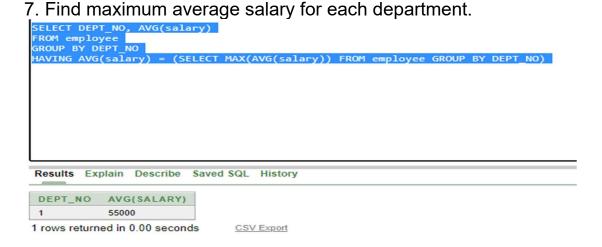
5. Find out the department name having highest employee strength



6. List out all the departments and average salary drawn by their employees

select dept no, AVG(SALARY), COUNT(*) FROM EMPLOYEE GROUP BY DEPT NO;





8. Create a view to display the employee details who is working in IT department.\



9. Create a logical table to store employee details who is getting salary more than 10000.

```
create or replace view employee vu as select * from EMPLOYEE where DEPT No=4;

select * from employee vu

Results Explain Describe Saved SQL History

no data found
```

10. Create a table to store the employees details based on the dep

```
create view employee_dep1 as select * from employee where dept_no=1; create view employee_dep2 as select * from employee where dept_no=2; create view employee_dep3 as select * from employee where dept_no=3;
```

Results Explain Describe Saved SQL History

View created.

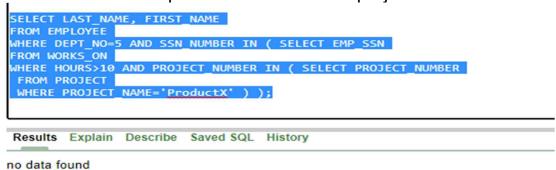
0.02 seconds

Exercise: VI

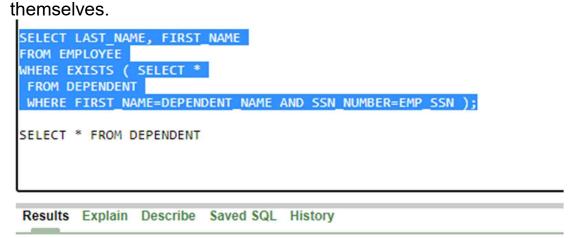
Joins

Aim: To understand how to relate and access data from multiple tables.

1. Retrieve the names of all employees in department 5 who work more than 10 hours per week on ProductX project.



2. List the names of all employees who have a dependent with the same first name as

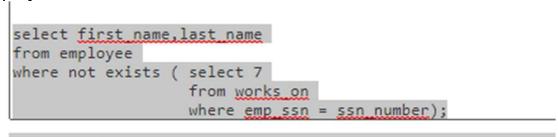


no data found

3. Find the names of all the employees who are directly supervised by 'Franklin Wong'.



4. Retrieve the names of all who do not work on any project.



Results Explain Describe Saved SQL History

FIRST_NAME	LAST_NAME
Franklin	Wong
Jennifer	Wallace
John	Smith
Ramesh	Narayan

4 rows returned in 1.53 seconds CSV Export

6.List the names of all managers who have no dependents.

```
select FIRST_NAME, LAST_NAME
from employee
where ssn number in (select manager ssn
         from dept) and ssn number not in (select emp ssn from dependent);
```

Results Explain Describe Saved SQL History

FIRST_NAME	LAST_NAME
Doug	Gilbert
Ramesh	Narayan
Jennifer	Wallace
John	Smith

4 rows returned in 0.03 seconds CSV Export

7. List the employee's names and the department names if they happen to manage a department

```
SELECT e.SSN NUMBER,
      e.FIRST NAME,
      e.salary,
       e.dept NO,
       d.dept_name
FROM employee e,
     dept d
WHERE e.dept no = d.dept no
```

SSN_NUMBER	FIRST_NAME	SALARY	DEPT_NO	DEPT_NAME
123	Doug	80000	1	Headquarter

Results Explain Describe Saved SQL History

123	Doug	80000	1	Headquarter
124	Joyce	70000	3	Finance
125	Franklin	40000	2	Administration
564	Jennifer	43000	2	Administration
678	John	30000	1	Headquarter
234	Ramesh	38000	3	Finance

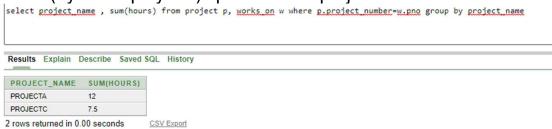
6 rows returned in 0.03 seconds CSV Export

8. For each project retrieve the project number, project name and the number of employees who work on that project.

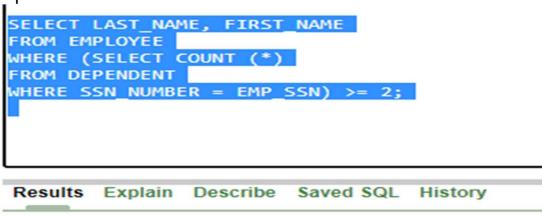
Results Explain Describe Saved SQL History PROJECT_NAME PROJECT_NUMBER COUNT

PROJECTA 3388
PROJECTC 6688 PROJECTC 2 rows returned in 0.04 seconds CSV Export

9. For each project, list the project name and the total hours per week (by all employees) spent on that project.



10.Retrieve the names of the employees who have 2 or more dependents.



no data found