# CSE5011 – Database Systems and Design

Assessment - 3

(Ex-5 and Ex-6)

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## Exercise: V Sub Query and View

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

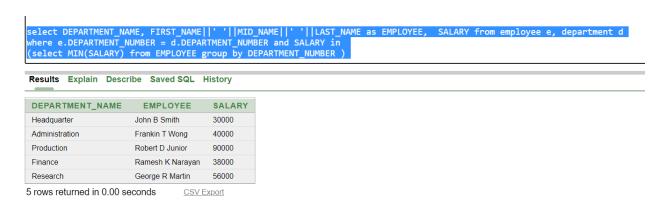
select FIRST\_NAME||' '||MID\_NAME||' '||LAST\_NAME as employee , SALARY from employee where salary = (select max(salary) from employee where DEPARTMENT\_NUMBER in (select DEPARTMENT\_NUMBER from department where DEPARTMENT\_NAME = 'Research'))

Results Explain Describe Saved SQL History

EMPLOYEE SALARY
Kit R Harrington 73000

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

1 rows returned in 0.00 seconds CSV Export



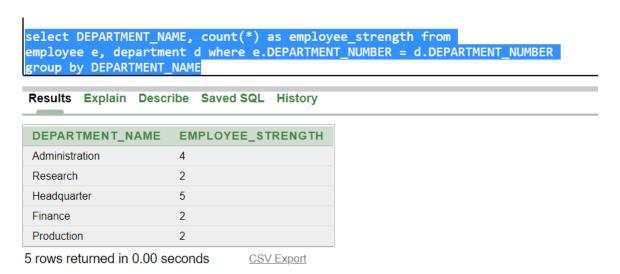
### 3. Find the employee whose salary is greater than average salary of department 2

	' '  MID_NAME  ' '  LAST_N lect AVG(SALARY) from EMPLO
Results Explain Des	scribe Saved SQL History
EMPLOYE	E SALARY
Chris Evans	91000
Chris Hemsworth	92000
Elizabeth Olsen	93000
Scarlett Johansson	94000
Mark A Ruffalo	89000
Tom Hiddleston	88000
Tom Holland	87000
Kit R Harrington	73000
Doug E Gilbert	80000
Joyce PAN	70000
More than 10 rows availab	le. Increase rows selector to view more ro

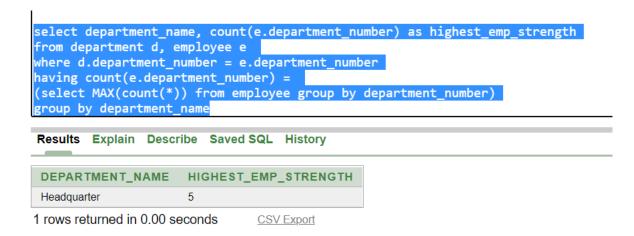
#### 4. List out all the department names with their individual employees strength

CSV Export

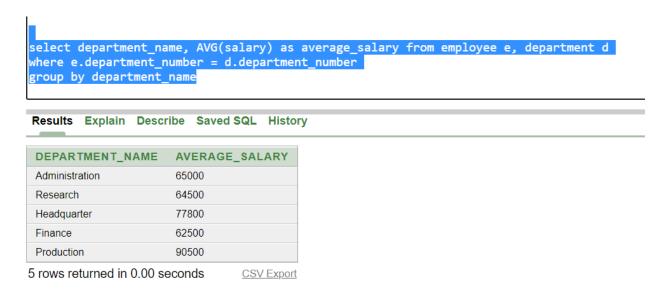
10 rows returned in 0.00 seconds



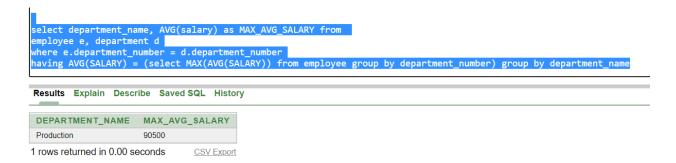
#### 5. Find out the department name having highest employee strength



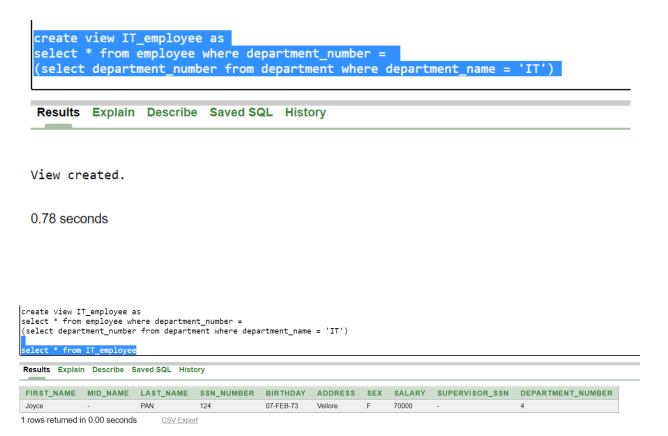
#### 6. List out all the departments and average salary drawn by their employees



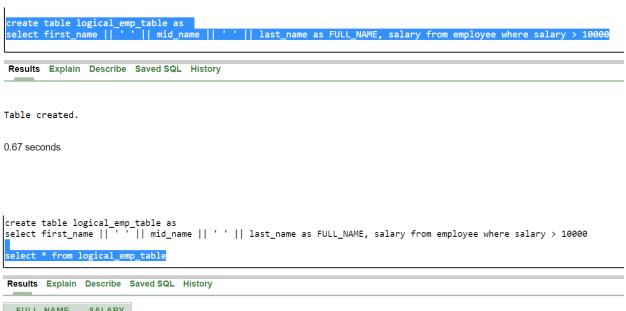
#### 7. Find maximum average salary for each department.



#### 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.



FULL_NAME	SALARY
Frankin T Wong	40000
Jennifer S Wallace	43000
John B Smith	30000
Ramesh K Narayan	38000
Chris Evans	91000
Chris Hemsworth	92000
Elizabeth Olsen	93000
Scarlett Johansson	94000
Mark A Ruffalo	89000
Tom Hiddleston	88000
Tom Holland	87000
George R Martin	56000
Kit R Harrington	73000
Doug E Gilbert	80000
Joyce PAN	70000
Robert D Junior	90000

16 rows returned in 0.14 seconds

CSV Export

#### 10. Create a table to store the employees details based on the department no

create table emp\_details\_with\_dep\_no as \_ select first\_name || ' ' || mid\_name || ' ' || last\_name as FULL\_NAME, department\_number from employee

Results Explain Describe Saved SQL History

Table created.

0.67 seconds

create table emp\_details\_with\_dep\_no as select first\_name || ' ' || mid\_name || ' ' || last\_name as FULL\_NAME, department\_number from employee select \* from emp\_details\_with\_dep\_no

Results Explain Describe Saved SQL History

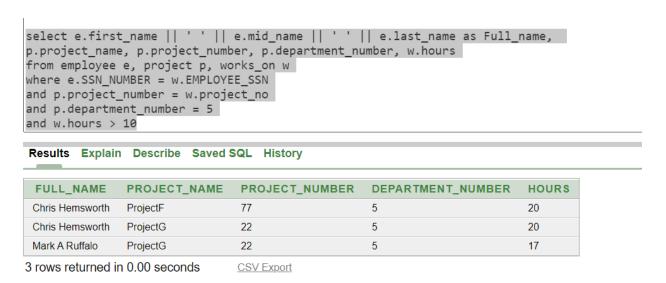
FULL_NAME	DEPARTMENT_NUMBER
Frankin T Wong	2
Jennifer S Wallace	2
John B Smith	1
Ramesh K Narayan	3
Chris Evans	5
Chris Hemsworth	1
Elizabeth Olsen	1
Scarlett Johansson	1
Mark A Ruffalo	2
Tom Hiddleston	2
Tom Holland	3
George R Martin	7
Kit R Harrington	7
Doug E Gilbert	1
Joyce PAN	4
Robert D Junior	5

16 rows returned in 0.23 seconds CSV Export

Exercise: VI
Joins

Consider the schema given in exercise 2, and execute the following queries

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 themselves.



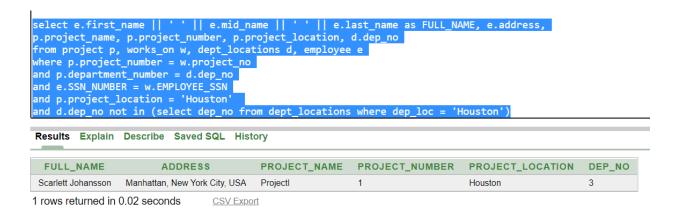
3. Find the names of all the employees who are directly supervised by 'Franklin Wong'.



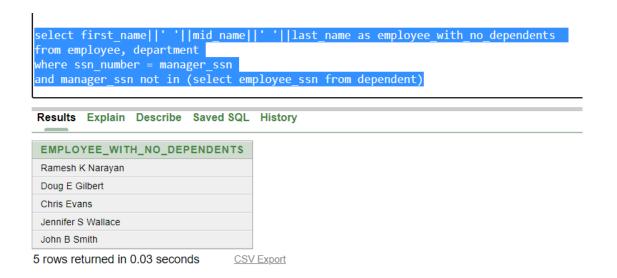
4. Retrieve the names of all who do not work on any project.



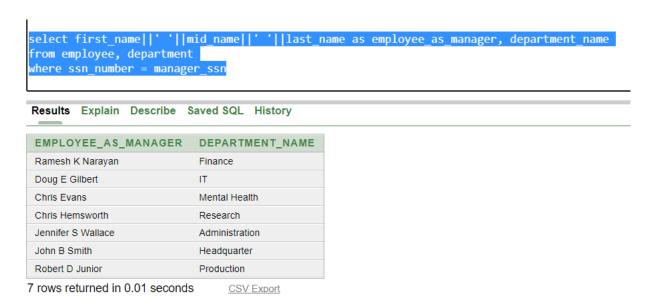
5. Find the names and addresses of all employees who work on at least one project located in Houston but whose department has no location in Houston.



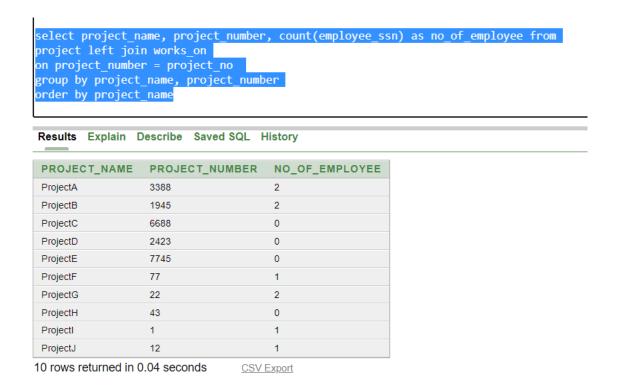
6. List the names of all managers who have no dependents.



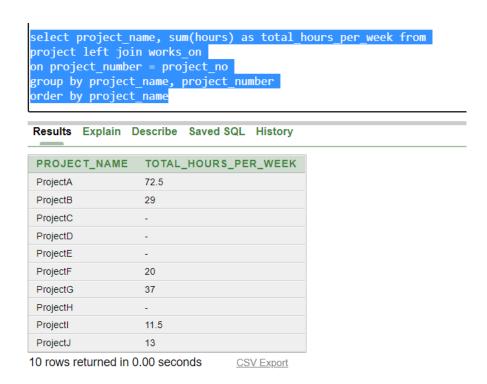
7. List the employee's names and the department names if they happen to manage a department.



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



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.

