21BDS0340

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Database Systems Lab

Assignment – III

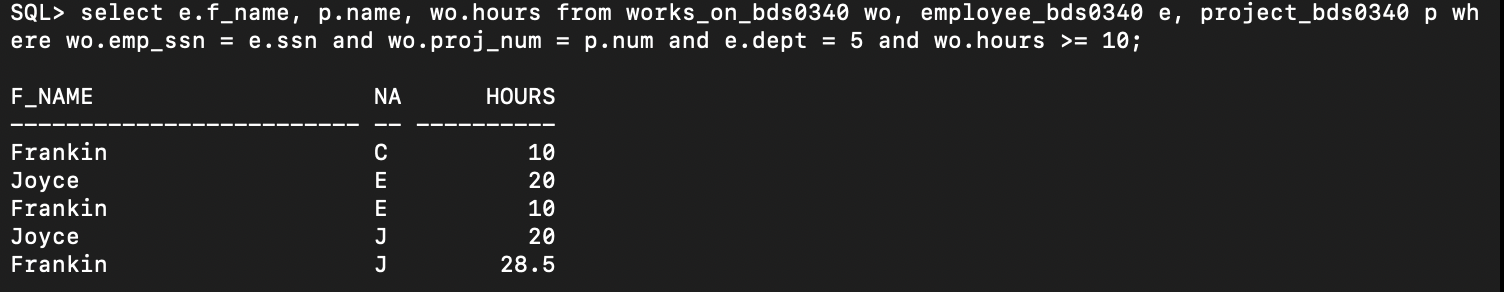
**Exercise – V**

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

Command:

select e.f\_name, p.name, wo.hours from works\_on\_bds0340 wo, employee\_bds0340 e, project\_bds0340 p where wo.emp\_ssn = e.ssn and wo.proj\_num = p.num and e.dept = 5 and wo.hours >= 10;

Output:

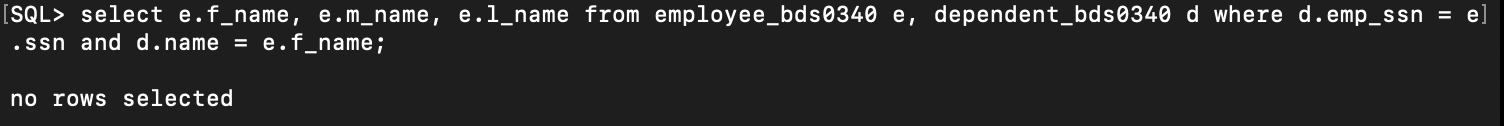


1. List the names of all employees who have a dependent with the same first name as themselves

Command:

select e.f\_name, e.m\_name, e.l\_name from employee\_bds0340 e, dependent\_bds0340 d where d.emp\_ssn = e.ssn and d.name = e.f\_name;

Output:

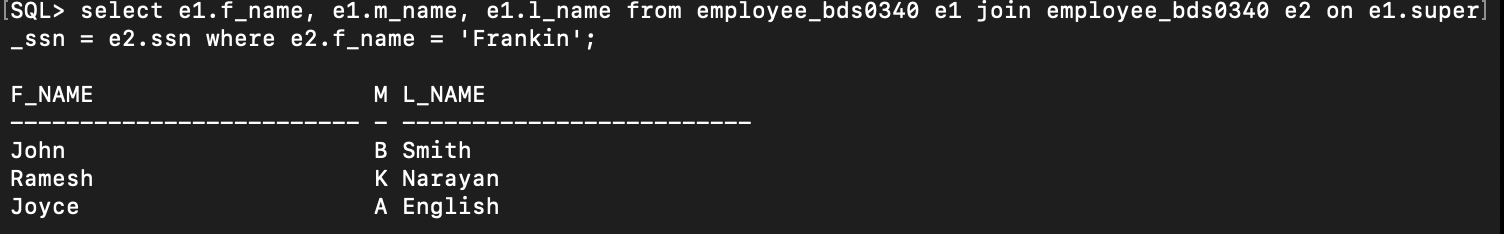


1. Find the names of all the employees who are supervised by ‘Franklin’

Command:

select e1.f\_name, e1.m\_name, e1.l\_name from employee\_bds0340 e1 join employee\_bds0340 e2 on e1.super\_ssn = e2.ssn where e2.f\_name = 'Frankin';

Output:

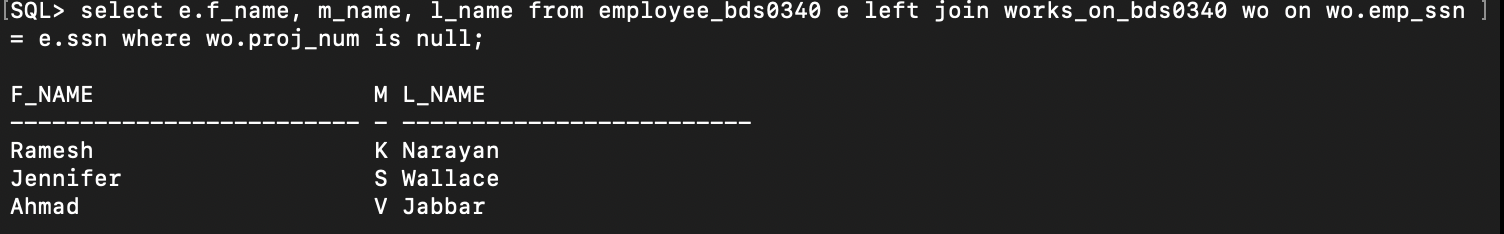


1. Retrieve the names of the employees who do not work on any project

Command:

select e.f\_name, m\_name, l\_name from employee\_bds0340 e left join works\_on\_bds0340 wo on wo.emp\_ssn = e.ssn where wo.proj\_num is null;

Output:

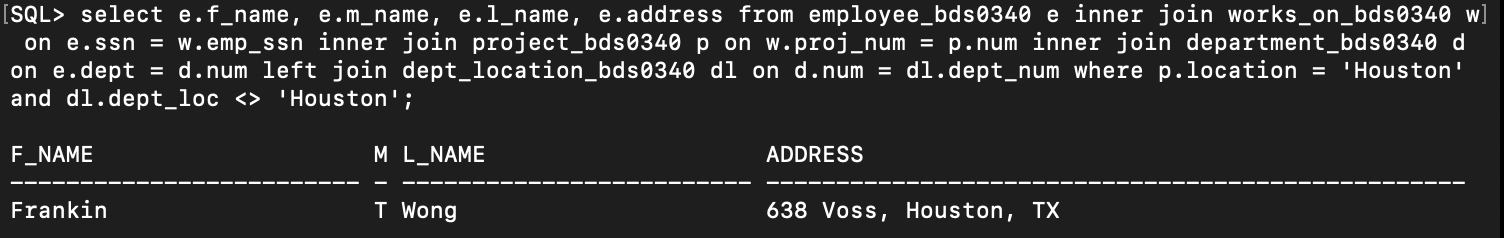


1. Find the names and addresses of all employees who work on at least one project located in Houston but whose department has no location in Houston

Command:

select e.f\_name, e.m\_name, e.l\_name, e.address from employee\_bds0340 e inner join works\_on\_bds0340 w on e.ssn = w.emp\_ssn inner join project\_bds0340 p on w.proj\_num = p.num inner join department\_bds0340 d on e.dept = d.num left join dept\_location\_bds0340 dl on d.num = dl.dept\_num where p.location = 'Houston' and dl.dept\_loc <> 'Houston';

Output:



1. List the names of all managers that have no dependents

Command:

select e.f\_name, e.m\_name, e.l\_name from employee\_bds0340 e left join dependent\_bds0340 d on d.emp\_ssn = e.ssn where d.emp\_ssn is null;

Output:



1. List the employee names and the department names if they happen to manage the department

Command:

select e.f\_name, e.m\_name, e.l\_name, d.name from employee\_bds0340 e left join department\_bds0340 d on d.mgr\_ssn = e.ssn;

Output:

A screenshot of a computer

Description automatically generated with medium confidence

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

Command:

select p.num, p.name, count(w.emp\_ssn) from project\_bds0340 p join works\_on\_bds0340 w on w.proj\_num = p.num group by p.num, p.name;

Output:

A computer screen with white text

Description automatically generated with low confidence

1. For each project, list the projects name and the total hours (by all employees) spent on that project

Command:

select p.name, sum(w.hours) from project\_bds0340 p inner join works\_on\_bds0340 w on w.proj\_num = p.num group by p.name;

Output:

A screen shot of a computer

Description automatically generated with medium confidence

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

Command:

select e.f\_name, e.m\_name, e.l\_name, count(d.name) from employee\_bds0340 e inner join dependent\_bds0340 d on e.ssn = d.emp\_ssn group by e.f\_name, e.m\_name, e.l\_name having count(d.name) >= 2;

Output:

