Jerry Olds

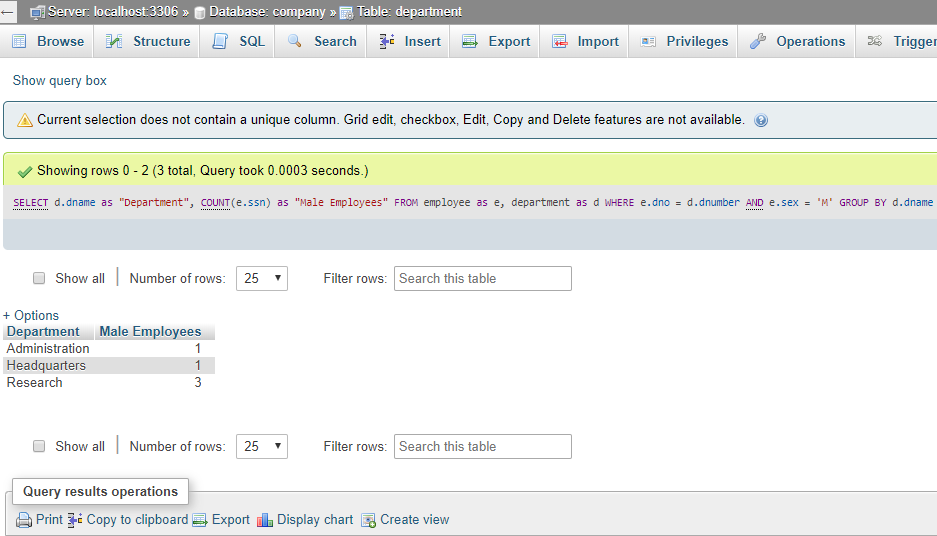
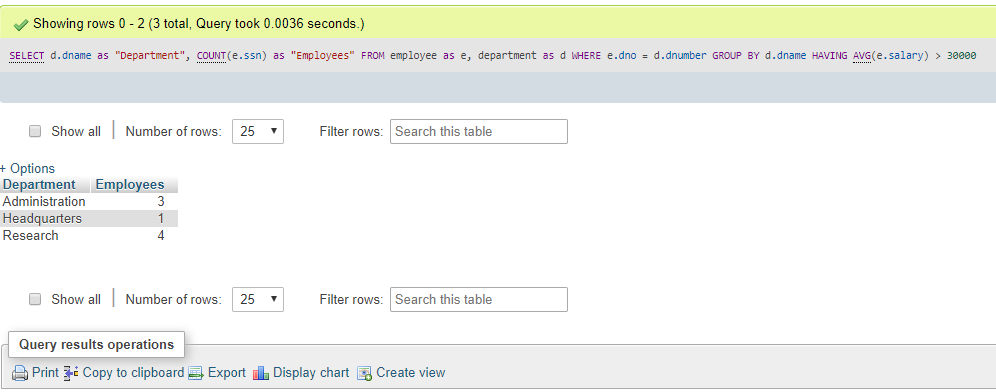
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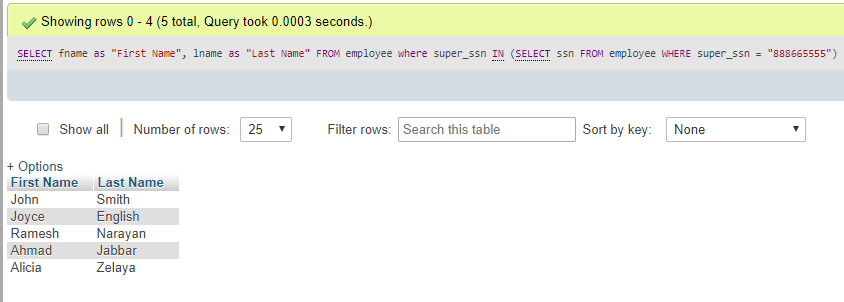
Assignment 4

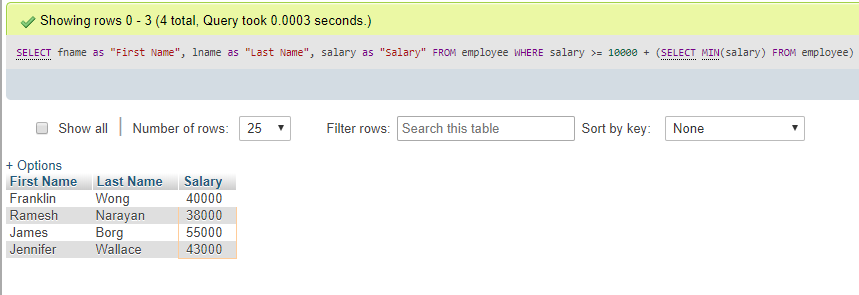
(May have to zoom in on screenshots)

1a. 1b.

1c.

SELECT e.fname as “First Name”, e.lname as “Last Name”, d.dname as “Department” FROM employee as e, department as d WHERE (e.dno, e.salary) IN (SELECT e.dno, MAX(e.salary) from employee group by e.dno)

1d.

1e.

2a.

CREATE VIEW 2a AS SELECT d.dname as “Department”, e.fname as “First Name”, e.lname as “Last Name”, e.salary as “Salary” FROM employee as e, department as d WHERE e.dno = d.dnumber AND e.ssn = d.mgr\_ssn

2b.

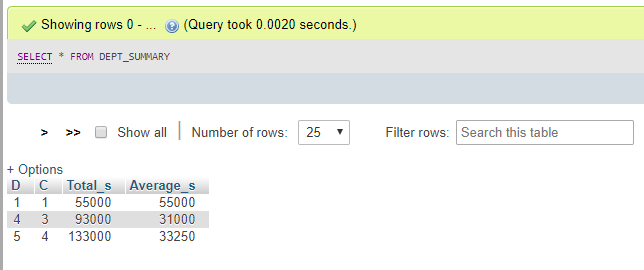
CREATE VIEW 2b (Employee\_First\_Name, Employee\_Last\_Name, Supervisor\_First\_Name, Supervisor\_Last\_Name, Salary) AS SELECT e.fname, e.lname, s.fname, s.lname e.salary FROM employee as e, employee as s, department as d WHERE d.dname = “Research” AND e.dno = d.dnumber AND e.super\_ssn = s.ssn

2c.

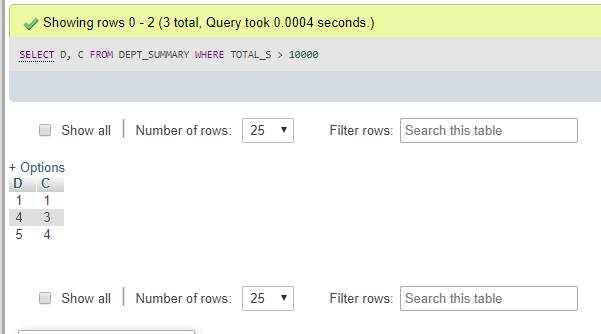
CREATE VIEW 2c AS SELECT p.project\_name as “Project”, d.dname as “Department”, COUNT(w.w\_ssn) as “Number of Employees”, SUM(w.hours) as “Hours per Week” FROM project as p, department as d, works\_on as w WHERE d.dnumber = p,department\_id AND w.w\_project\_id = p.project\_id GROUP BY p.project\_id

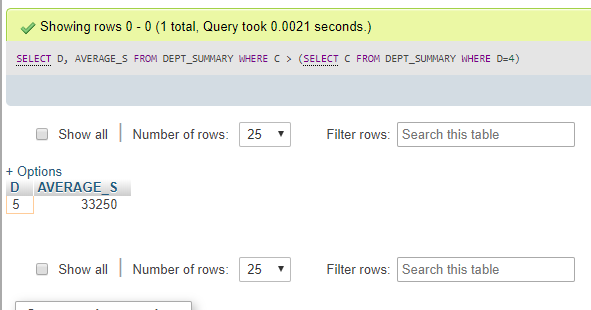
2d.

CREATE VIEW 2c AS SELECT p.project\_name as “Project”, d.dname as “Department”, COUNT(w.w\_ssn) as “Number of Employees”, SUM(w.hours) as “Hours per Week” FROM project as p, department as d, works\_on as w WHERE d.dnumber = p,department\_id AND w.w\_project\_id = p.project\_id GROUP BY p.project\_id HAVING COUNT(w.w\_ssn) > 1

3a.

3b.



3c.

3d. NOT ALLOWED

3e. NOT ALLOWED

4a. SELECT Name, Major FROM STUDENT AS s WHERE NOT EXISTS (SELECT \* FROM GRADE\_REPORT AS g WHERE g.StudentNumber= s.StudentNumber AND NOT(g.Grade='A'))

4b. SELECT Name, Major FROM STUDENT AS s WHERE NOT EXISTS (SELECT \* FROM GRADE\_REPORT AS g WHERE g.StudentNumber= s.StudentNumber AND g.Grade='A')

5. A trigger is an action that executes when data is inserted or modified in a database. An example where a trigger would be used would be to set data to desired default values when an entry is made in to a database