SQL script to create table, fill table with data, and check to make sure it all worked right

\*\*choose database to use\*\*

USE employees;

\*\*checks to see if table currently exists\*\*

DROP TABLE IF EXISTS emp\_manager;

\*\*creates the table\*\*

CREATE TABLE emp\_manager (

emp\_no INT(11) NOT NULL,

dept\_no CHAR(4) null,

manager\_no INT(11) NOT NULL

);

\*\*Inserting data into newly created table\*\*

INSERT INTO emp\_manager

SELECT

u.\*

FROM

(SELECT

a.\*

FROM

(SELECT

e.emp\_no AS employee\_ID,

MIN(de.dept\_no) AS department\_code,

(SELECT

emp\_no

FROM

dept\_manager

WHERE

emp\_no = 110022) AS manager\_ID

FROM

employees e

JOIN dept\_emp de ON e.emp\_no = de.emp\_no

WHERE

e.emp\_no <= 10020

GROUP BY e.emp\_no

ORDER BY e.emp\_no) AS a UNION SELECT

b.\*

FROM

(SELECT

e.emp\_no AS employee\_ID,

MIN(de.dept\_no) AS department\_code,

(SELECT

emp\_no

FROM

dept\_manager

WHERE

emp\_no = 110039) AS manager\_ID

FROM

employees e

JOIN dept\_emp de ON e.emp\_no = de.emp\_no

WHERE

e.emp\_no > 10020

GROUP BY e.emp\_no

ORDER BY e.emp\_no

LIMIT 20) AS b UNION SELECT

c.\*

FROM

(SELECT

e.emp\_no AS employee\_ID,

MIN(de.dept\_no) AS department\_code,

(SELECT

emp\_no

FROM

dept\_manager

WHERE

emp\_no = 110039) AS manager\_ID

FROM

employees e

JOIN dept\_emp de ON e.emp\_no = de.emp\_no

WHERE

e.emp\_no = 110022

GROUP BY e.emp\_no) AS c UNION SELECT

d.\*

FROM

(SELECT

e.emp\_no AS employee\_ID,

MIN(de.dept\_no) AS department\_code,

(SELECT

emp\_no

FROM

dept\_manager

WHERE

emp\_no = 110022) AS manager\_ID

FROM

employees e

JOIN dept\_emp de ON e.emp\_no = de.emp\_no

WHERE

e.emp\_no = 110039

GROUP BY e.emp\_no) AS d) as u;

\*\*Selecting the table to see that everything worked correctly\*\*

select \*

from emp\_manager;

Extract the information about all department managers who were hired between the 1st of January 1990 and the 1st of January 1995.

select \*

from dept\_manager

where emp\_no IN(

select emp\_no

from employees

where hire\_date between '1990-01-01' and '1995-01-01'

);

Select the entire information for all employees whose job title is “Assistant Engineer”

SELECT \*

from employees

where emp\_no IN (

select emp\_no

from titles

where title = 'Assistant Engineer'

);

\*\*how to create a run a view\*\*

Create a view that will extract the average salary of all managers registered in the database. Round this value to the nearest cent.

CREATE view avg\_manager\_salary AS

select ROUND(AVG(salary),2)

from salaries

where emp\_no IN (

select emp\_no

from dept\_manager

);

select \* from avg\_manager\_salary;