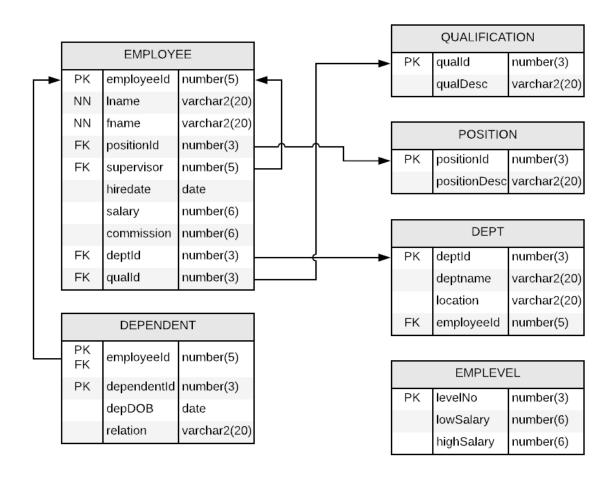
Muhammed Emin Ay

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1-)Hafta7 LAb5.pptx dosyasının 15. sayfasında verilen veri modeline göre veri tabanındaki tabloları oluşturunuz.



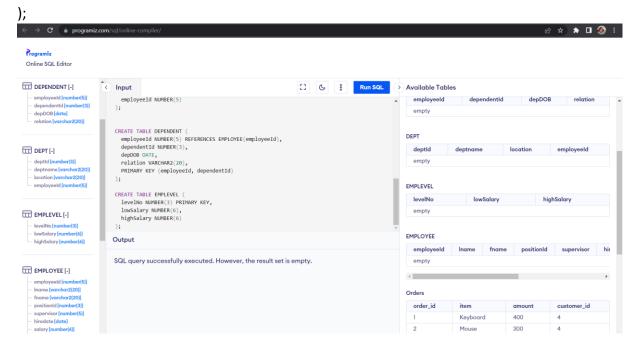
```
qualid NUMBER(3) PRIMARY KEY NOT NULL,
qualDesc VARCHAR2(20) NOT NULL
);

CREATE TABLE POSITION (
positionid NUMBER(3) PRIMARY KEY NOT NULL,
positionDesc VARCHAR2(20),
);
```

CREATE TABLE QUALIFICATION (

```
CREATE TABLE DEPT (
 deptid NUMBER(3) PRIMARY KEY NOT NULL,
 deptname VARCHAR2(20),
 location VARCHAR2(20)
);
CREATE TABLE EMPLOYEE (
 employeeid NUMBER(5) PRIMARY KEY NOT NULL,
 Iname VARCHAR2(20) NOT NULL,
 fname VARCHAR2(20) NOT NULL,
 positionid NUMBER(3) REFERENCES POSITION(positionid),
 supervisor NUMBER(5) REFERENCES EMPLOYEE(employeeid),
 hiredate DATE,
 salary NUMBER(6),
 commission NUMBER(6),
 deptid NUMBER(3) REFERENCES DEPT(deptid),
 qualid NUMBER(3) REFERENCES QUALIFICATION(qualid)
);
CREATE TABLE EMPLEVEL (
 levelNo NUMBER(3) PRIMARY KEY NOT NULL,
 employeeid NUMBER(5) REFERENCES EMPLOYEE(employeeid)
);
CREATE TABLE DEPENDENT (
 dependentid NUMBER(3) PRIMARY KEY NOT NULL,
 employeeid NUMBER(5) REFERENCES EMPLOYEE(employeeid),
 levelNo NUMBER(3) REFERENCES EMPLEVEL(levelNo),
```

depDOB DATE,
lowSalary NUMBER(6),
relation VARCHAR2(20),
highSalary NUMBER(6)

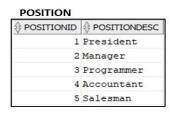


2-)16. sayfadaki örnek kayıtları bu tablolara giriniz.

EMPLOYEE

	NAME 0	FNAME	♦ POSITIONID		♦ HIREDATE	SALARY	♦ COMMISSION		
111 Smi	ith Jo	ohn	1	(null)	17-04-1995	265000	35000	10	1
543 Dev	7 De	erek	2	111	15-03-2010	80000	20000	20	1
246 Hou	aston La	arry	2	111	19-05-1997	150000	10000	40	2
123 Rob	perts Sa	andi	2	111	01-12-2006	75000	(null)	10	2
433 McC	Call Al	lex	3	543	10-05-2012	66500	(null)	20	4
135 Gar	rner St	tanley	2	111	29-06-2011	45000	5000	30	5
200 Sha	aw Ji	inku	5	135	02-01-2015	24500	3000	30	(null)
222 Che	en Su	unny	4	123	15-08-2014	35000	(null)	10	3

		\$ LOCATION	
10	Finance	Charlotte	123
20	InfoSys	New York	543
30	Sales	Woodbridge	135
40	Marketing	Los Angeles	246





DEPENDENT

			RELATION
543	1	28-09-1958	Spouse
543	2	14-10-1988	Son
200	1	10-06-1976	Spouse
222	1	04-02-1975	Spouse

EMPLEVEL

↓ LEVELNO		♦ HIGHSALARY
1	1	25000
2	25001	50000
3	50001	100000
4	100001	500000

```
INSERT INTO QUALIFICATION VALUES (1, 'Doctorate');
INSERT INTO QUALIFICATION VALUES (2, 'Masters');
INSERT INTO QUALIFICATION VALUES (3, 'Bachelors');
INSERT INTO QUALIFICATION VALUES (4, 'Associates');
INSERT INTO QUALIFICATION VALUES (5, 'High School');
INSERT INTO POSITION VALUES (1, 'President');
INSERT INTO POSITION VALUES (2, 'Manager');
INSERT INTO POSITION VALUES (3, 'Programmer');
INSERT INTO POSITION VALUES (4, 'Accountant');
INSERT INTO POSITION VALUES (5, 'Salesman');
INSERT INTO EMPLEVEL VALUES (1, 1, 25000);
INSERT INTO EMPLEVEL VALUES (2, 25001, 50000);
INSERT INTO EMPLEVEL VALUES (3, 50001, 100000);
INSERT INTO EMPLEVEL VALUES (4, 100001, 500000);
INSERT INTO DEPT (deptId, deptname, location) VALUES (10, 'Finance', 'Charlotte');
INSERT INTO DEPT (deptId, deptname, location) VALUES (20, 'InfoSys', 'New York');
INSERT INTO DEPT (deptId, deptname, location) VALUES (30, 'Sales', 'Woodbridge');
INSERT INTO DEPT (deptId, deptname, location) VALUES (40, 'Marketing', 'Los Angeles');
INSERT INTO EMPLOYEE VALUES (111, 'Smith', 'John', 1, NULL, '04/17/1995', 265000, 35000,
10, 1);
INSERT INTO EMPLOYEE VALUES (543, 'Dev', 'Derek', 2, 111, '03/15/2010', 80000, 20000, 20,
1);
INSERT INTO EMPLOYEE VALUES (246, 'Houston', 'Larry', 2, 111, '05/19/1997', 150000,
10000, 40, 2);
INSERT INTO EMPLOYEE VALUES (123, 'Roberts', 'Sandi', 2, 111, '12/01/2006', 75000, NULL,
10, 2);
```

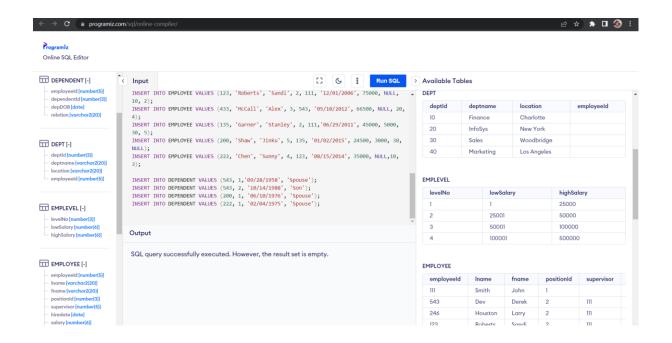
INSERT INTO EMPLOYEE VALUES (433, 'McCall', 'Alex', 3, 543, '05/10/2012', 66500, NULL, 20, 4);

INSERT INTO EMPLOYEE VALUES (135, 'Garner', 'Stanley', 2, 111,'06/29/2011', 45000, 5000, 30, 5);

INSERT INTO EMPLOYEE VALUES (200, 'Shaw', 'Jinku', 5, 135, '01/02/2015', 24500, 3000, 30, NULL);

INSERT INTO EMPLOYEE VALUES (222, 'Chen', 'Sunny', 4, 123, '08/15/2014', 35000, NULL,10, 3);

INSERT INTO DEPENDENT VALUES (543, 1,'09/28/1958', 'Spouse');
INSERT INTO DEPENDENT VALUES (543, 2, '10/14/1988', 'Son');
INSERT INTO DEPENDENT VALUES (200, 1, '06/10/1976', 'Spouse');
INSERT INTO DEPENDENT VALUES (222, 1, '02/04/1975', 'Spouse');



SORGULAR

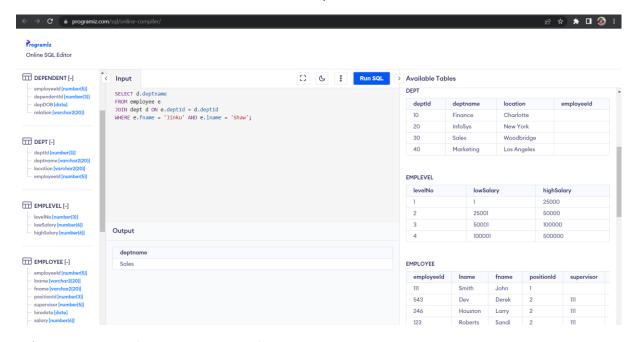
1-) Display employee Jinku Shaw's department name.

SELECT d.deptname

FROM employee e

JOIN dept d ON e.deptId = d.deptId

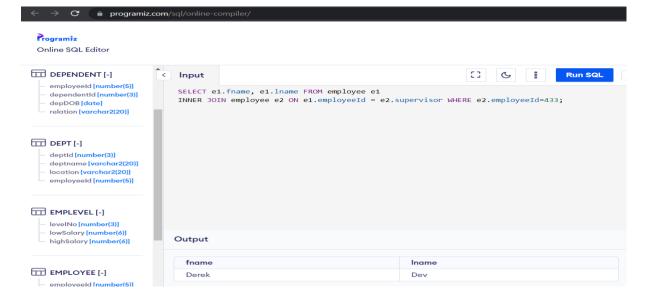
WHERE e.fname = 'Jinku' AND e.lname = 'Shaw';



2-) Find name of the supervisor for employee number 433.

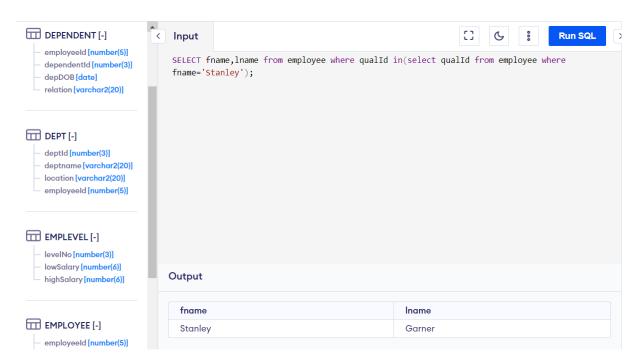
SELECT e1.fname, e1.lname FROM employee e1

INNER JOIN employee e2 ON e1.employeeId = e2.supervisor WHERE e2.employeeId=433;



3-) Who has same qualification as Stanley Garner?

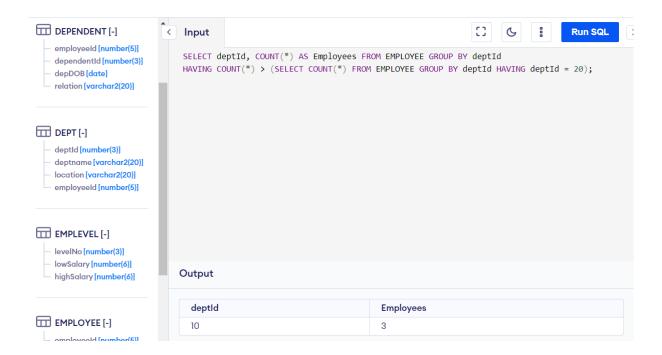
SELECT fname, Iname from employee where qualld in (select qualld from employee where fname='Stanley');



4-)Which department has more employees than department 20?

SELECT deptid, COUNT(*) AS Employees FROM EMPLOYEE GROUP BY deptid

HAVING COUNT(*) > (SELECT COUNT(*) FROM EMPLOYEE GROUP BY deptid HAVING deptid = 20);

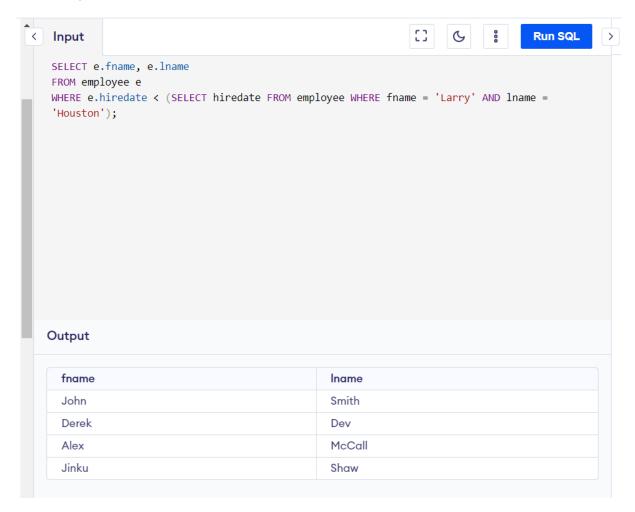


5-)Which employees are working in the company longer than Larry Houston?

SELECT e.fname, e.lname

FROM employee e

WHERE e.hiredate < (SELECT hiredate FROM employee WHERE fname = 'Larry' AND Iname = 'Houston');

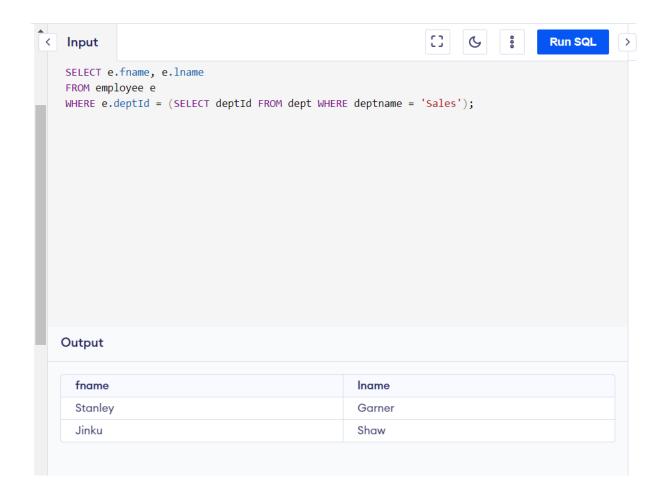


6-) Find all employees in the sales department by using a nested query.

SELECT e.fname, e.lname

FROM employee e

WHERE e.deptId = (SELECT deptId FROM dept WHERE deptname = 'Sales');



7-)Create a new table, EMP30, and populate it with employees in department 30, using an existing table and a subquery. Use EmployeeId, Lname, Fname, HireDate and Salary columns.

CREATE TABLE EMP30 AS

SELECT Employeeld, Lname, Fname, HireDate, Salary

FROM employee

Online SQL Editor

WHERE deptId = 30;



8-)Add more rows to EMP30 table with employee in department 40. Do not transfer employee's salary.

INSERT INTO EMP30 (employeeld, fname, lname, hiredate)

SELECT employeeId, fname, lname, hiredate FROM EMPLOYEE WHERE deptId = 40;



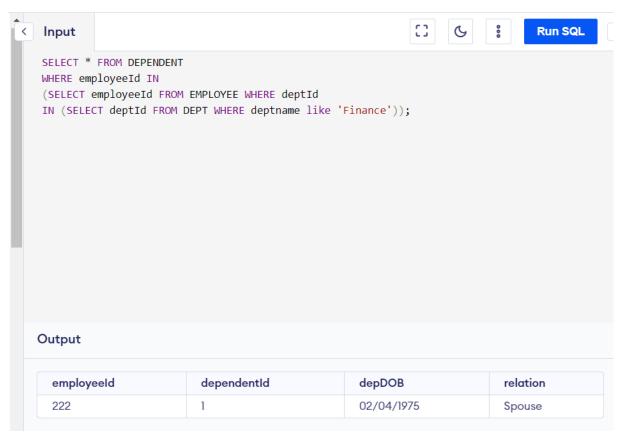
9-)Use multiple level subquery to display dependent information for employees, who belong to FINANCE department.

SELECT * FROM DEPENDENT

WHERE employeeld IN

(SELECT employeeld FROM EMPLOYEE WHERE deptld

IN (SELECT deptId FROM DEPT WHERE deptname like 'Finance'));

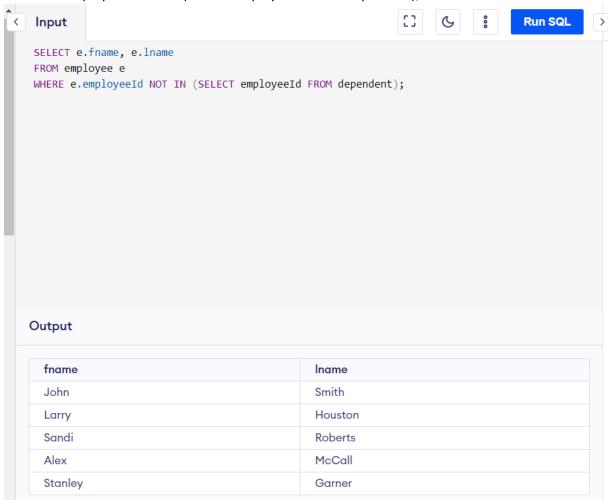


10-)Use set operator and subquery to find employees, who do not have any dependents.

SELECT e.fname, e.lname

FROM employee e

WHERE e.employeeId NOT IN (SELECT employeeId FROM dependent);



11-)Write a subquery that finds average salary by each department. Check to find if employee 543's salary satisfies =ANY, <ANY, >ANY, <ALL, or >ALL condition against those departmental average salaries.