# נדב פיירמן שטרן 207018250 תרגול שעה 14

```
CREATE TABLE Employees
Employee id int,
First_name text,
Last name text,
Birth_date int,
Hire_date date,
Job_id int,
Salary int,
Department_id int
);
INSERT INTO Employees
VALUES
(84596, 'Matan', 'aviram', 1985, '2005-07-12', 018, 12000, 100),
(24587, 'Alex', 'Aliasi', 1986, '2016-07-31', 018, 10000, 200),
(25097, 'Lora', 'Erlih', 1990, '2012-04-25', 222, 7500, 100),
(62557, 'Pria', 'Boike', 1991, '2016-03-29', 222, 8000, 100),
(11459, 'Lilah', 'Benita', 1988, '2014-07-23', 333, 12000, 100),
(33548, 'Sigal', 'Brukner', 1980, '2000-09-03', 333, 14000, 100),
(25063, 'Asaf', 'Vong', 1985, '2016-03-12', 333, 12000, 200),
(34159, 'Arie', 'Daari', 1991, '2016-07-30', 222, 6000, 300),
(36548, 'Ben', 'Koen', 1986, '2010-12-25', 018, 12000, 100),
(97513, 'Ariel', 'Levi', 1988, '2016-06-30', 018, 10000, 200),
(24581, 'Azar', 'Nizan', 1989, '2016-07-23', 222, 7500, 200),
(36596, 'Inbar', 'sarusi', 1986, '2008-02-03', 018, 12000, 300),
(96745, 'Daniel', 'Fizer', 1985, '2016-07-12', 222, 12000, 300),
(36854, 'Inbal', 'Fishman', 1982, '2008-11-25', 018, 12000, 200),
(25748, 'Rinat', 'Kadur', 1988, '2008-07-25', 018, 12000, 300);
SELECT *
FROM Employees
```

Employee_id	First_name	Last_name	Birth_date	Hire_date	Job_id	Salary	Department_id
84596	Matan % 🗔	aviram 9	F 1985	2005-07-12	18	12000	100
24587	Alex	Aliasi	1986	2016-07-31	18	10000	200
25097	Lora	Erlih 9	1990	2012-04-25	222	7500	100
62557	Pria % 🗔	Boike 9	□ 1991	2016-03-29	222	8000	100
11459	Lilah	Benita 9	1988	2014-07-23	333	12000	100
33548	Sigal 9.17	Brukner 9	□ 1980	2000-09-03	333	14000	100
25063	Asaf	Vong	1985	2016-03-12	333	12000	200
34159	Arie	Daari 9	□ 1991	2016-07-30	222	6000	300
36548	Ben 🥄 🗔	Koen	1986	2010-12-25	18	12000	100
97513	Ariel	Levi	□ 1988	2016-06-30	18	10000	200
24581	Azar	Nizan 9	1989	2016-07-23	222	7500	200
36596	Inbar % 🗔	sarusi 9	□ 1986	2008-02-03	18	12000	300
96745	Daniel % 🗔	Fizer	1985	2016-07-12	222	12000	300
36854	Inbal	Fishman	1982	2008-11-25	18	12000	200
25748	Rinat % 🗔	Kadur 9	1988	2008-07-25	18	12000	300

```
CREATE TABLE Jobs
(
Job_id int ,
Job_title text ,
Min_salary int ,
Max_salary int
);

INSERT INTO Jobs
VALUES
(018 , 'manager' , 10000 , 12000) ,
(222 , 'clerk' , 6000 , 8000) ,
(333 , 'engineer' , 12000 , 14000) ;
```

### **SELECT** \*

### **FROM Jobs**

```
1 CREATE TABLE Jobs
2 (
3 Job_id int ,
4 Job_title text ,
5 Min_salary int ,
6 Max_salary int
7 );
8
9 INSERT INTO Jobs
10 VALUES
11 (018 , 'manager' , 10000 , 12000) ,
12 (222 , 'clerk' , 6000 , 8000) ,
13 (333 , 'engineer' , 12000 , 14000) ;
14
15 SELECT *
16 FROM Jobs
```

Job_id	Job_title		Min_salary	Max_salary
18	manager	9.17	10000	12000
222	clerk	٩,日	6000	8000
333	engineer	9.11	12000	14000

```
CREATE TABLE Departments
Department_id int,
Department_name text,
Location_id int
);
INSERT INTO Departments
VALUES
(100, 'Business and financial services', 207),
(200, 'Events centres', 456),
(300, 'Administration', 789);
SELECT *
```

# **FROM Departments**

```
1 CREATE TABLE Departments
3 Department_id int ,
4 Department_name text ,
5 Location_id int
 8 INSERT INTO Departments
9 VALUES

10 (100 , 'Business and financial services' , 207) ,

11 (200 , 'Events centres' , 456) ,

12 (300 , 'Administration' , 789) ;
14 SELECT *
15 FROM Departments
```

Department_id	Department_name		Location_id
100	Business and financial services	익딝	207
200	Events centres	Q. [7]	456
300	Administration	익티	789

```
Location_id int,
Country text,
City text,
Street text
);
INSERT INTO Locations
VALUES
(207, 'israel', 'haifa', '3 Ben-Zvi'),
(456, 'Japan', 'tokyo', '5 Cat-Air'),
(789, 'israel', 'Tel-aviv', '56 Allenby');
SELECT*
FROM Locations
 1 CREATE TABLE Locations
 3 Location_id int ,
 4 Country text ,
5 City text ,
6 Street text
 9 INSERT INTO Locations
10 VALUES
11 (207 , 'israel' , 'haifa' , '3 Ben-Zvi') ,
12 (456 , 'Japan' , 'tokyo' , '5 Cat-Air') ,
13 (789 , 'israel' , 'Tel-aviv' , '56 Allenby') ;
14
15 SELECT *
16 FROM Locations
 Location_id | Country
                                                City
                                                                                   Street
                                                                                                                  9.0
        207 israel
                                           🔍 🗔 haifa
                                                                               Sen-Zvi 3 Ben-Zvi
                                                                                                                  9.17
                                                                               S □ 5 Cat-Air
                                           Salah tokyo
        456 Japan

□ Tel-aviv

                                                                               Se Allenby
        789 israel
```

## שאילתות

select First\_name , Last\_name , Birth\_date from Employees

1 select First\_name , Last\_name |, Birth\_date

where Birth\_date between 1983 and 1992 and Salary between 5301 and 8399

```
2 from Employees
    3 where Birth_date between 1983 and 1992 and Salary between 5301 and 8399
                                                                      Birth_date
First name
                                Last_name
                            S □ Erlih
Lora
                                                                           1990
                            Soike
                                                             9.17
Pria
                                                                           1991
                            🔍 🗔 Daari
                                                             9.13
Arie
                                                                           1991
                            Nizan
                                                             9,17
                                                                           1989
Azaı
```

select Last\_name , First\_name from Employees

**CREATE TABLE Locations** 

where (2022 - Birth\_date) <30 and Salary > 1870 \* 3.51

```
1 | select Last_name , First_name | from Employees | swhere (2022 - Birth_date) <30 and Salary > 1870 * 3.51 | Last_name | First_name
```

SELECT distinct E.Employee\_id From Employees as E, Departments as D, Locations as L Where (L.Location\_id = D.Location\_id) and (D.Department\_id = E.Department\_id) and (L.City like ' \_') and (L.Country like '%a%') and (L.Country not like '%e%') order by E.Employee\_id asc 1 SELECT distinct E.Employee\_id 2 From Employees as E , Departments as D , Locations as L Where (L.Location\_id = D.Location\_id) and 4 (D.Department\_id = E.Department\_id) and 5 (L.City like (L.City like '\_\*a\*') and
(L.Country like '\*a\*') and
(C.Country not like '\*e\*')
order by E.Employee\_id asc

Employee\_id 24581 24587 25063 36854 97513

 SELECT E.Last\_name , E.First\_name , E.Salary as 'Current\_salary' , (E.Salary \*1.245) as 'Future\_salary'

From Employees as E, Jobs as J

Where (E.job id = J.job id) and (job title = 'clerk')

SELECT E.Last\_name , E.First\_name , E.Salary as 'Current\_salary' , (E.Salary \*1.245) as 'Future\_salary' 2 From Employees as E , Jobs as J
3 Where (E.job\_id = J.job\_id) and (job\_title = 'clerk') Last\_name First\_name Current\_salary Future\_salary Erlih 9.0 7500 9337.500 Lora Pria 9.17 8000 9960.000 Boike Arie 9.17 6000 7470,000 Daari 9.□ Azar 9.0 7500 9337.500 Nizar □ Daniel ۹, 🗐

12000 14940.000

5. SELECT E.Employee\_id , E.Job\_id , D.Department\_name , E.Salary

From Employees as E, Departments as D

Where (D.Department\_id = E.Department\_id) and

(E.Salary >= 11200) and

Fizer

(E.Last\_name like '%M%') and

(D.Department\_name not like '%D%')

order by E. Salary desc

1 SELECT E.Employee\_id , E.Job\_id , D.Department\_name , E.Salary 2 From Employees as E, Departments as D
3 Where (D.Department\_id = E.Department\_id) and 1200) and 4 (E.Salary >= 1 '%M%') 5 (E.Last\_name like 6 (D.Department\_name not like '%D%') 7 order by E. Salary Salary Employee\_id Job\_id Department\_name 9.0 36854 12000 18 Events centres

 SELECT distinct E.Employee\_id , (2022- E.Birth\_date) as Age From Employees as E , Departments as D , Locations as L Where (L.Location\_id = D.Location\_id) and (D.Department\_id = E.Department\_id) and (L.Street like '%a%')

order by Age ASC, E.Hire\_date DESC

1 | SELECT distinct E.Employee\_id , (2022- E.Birth\_date) as Age
2 | From Employees as E , Departments as D , Locations as L
3 | Where (L.Location\_id = D.Location\_id) and
4 (D.Department\_id = E.Department\_id) and
5 (L.Street like '%a%')
6 | order by Age ASC , E.Hire\_date DESC

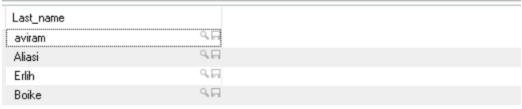
Employee_id	Age
34159	31
24581	33
97513	34
25748	34
24587	36
36596	36
96745	37
25063	37
36854	40

7. SELECT job\_title , (((Max\_salary + Min\_salary) / 2) / 3.47) as average\_of\_salary\_in\_dollars From Jobs

8. SELECT E. Last\_name

From Employees as E , Departments as D , Locations as L Where (L.Location\_id = D.Location\_id) and (D.Department\_id = E.Department\_id) and ((E.Last\_name like 'A%') or (E. First\_name like '%A')) and ((L. City like '%-%') or (L. Street like '%-%'))

I SELECT E. Last\_name
2 From Employees as E , Departments as D , Locations as L
3 Where (L.Location\_id = D.Location\_id) and
4 (D.Department\_id = E.Department\_id) and
5 ((E.Last\_name like 'A%') or (E. First\_name like '%A')) and
6 ((L. City like '%-%') or (L. Street like '%-%'))



SELECT E.Last\_name , E.First\_name , J.Job\_title
 From Employees as E , Jobs as J , Departments as D , Locations as L
 Where (E. Job\_id = J. Job\_id) and
 (L.Location\_id = D.Location\_id) and
 (D.Department\_id = E.Department\_id) and
 (L.city='tokyo')
 order by E. Salary ASC , E.Hire\_date DESC

1 SELECT E.Last\_name , E.First\_name , J.Job\_title
2 From Employees as E , Jobs as J , Departments as D , Locations as L
3 Where (E. Job\_id = J. Job\_id) and
4 (L.Location\_id = D.Location\_id) and
5 (D.Department\_id = E.Department\_id) and
6 (L.city = 'tokyo')
7 order by E. Salary ASC , E.Hire\_date DESC

Last_name		First_name		Job_title	
Nizan		Azar	9.17	clerk	9.17
Aliasi	٩, 🗔	Alex	9,11	manager	9,17
Levi	٩,日	Ariel	٩,日	manager	٩,日
Vong	9.17	Asaf	٩,日	engineer	9.17
Fishman	9.17	Inbal	٩,6	manager	9.10

### 10. SELECT E.\*

From Employees as E , Jobs as J , Departments as D Where (E.Job\_id = J.Job\_id) and

(D.Department\_id = E.Department\_id) and

(D. Department\_name like '%E%E%E%') and

(J.Job\_title <> 'engineer')

1 StleCT E.\*
2 From Employees as E , Jobs as J , Departments as D
3 Where (E.Job\_id = J.Job\_id) and
4 (D.Department\_id = E.Department\_id) and
5 (D. Department\_name like '%E%E%E%') and
6 (J.Job\_title <> 'engineer')

Employee_id	First_name	Last_name	Birth_date	Hire_date	Job_id	Salary	Department_id
84596	Matan	aviram	1985	2005-07-12	18	12000	100
24587	Alex	Aliasi	1986	2016-07-31	18	10000	200
25097	Lora	Erlih % 🗔	1990	2012-04-25	222	7500	100
62557	Pria % 🗔	Boike %	1991	2016-03-29	222	8000	100
36548	Ben 🥄 🗔	Koen	1986	2010-12-25	18	12000	100
97513	Ariel	Levi	1988	2016-06-30	18	10000	200
24581	Azar	Nizan % 🗔	1989	2016-07-23	222	7500	200
36854	Inbal % 🗔	Fishman	1982	2008-11-25	18	12000	200