Ad:Özgür Sadık   Soyad:Utku   Numara: 181816072   Lab Numarası:Lab Föy 4

1.a) CREATE TABLE Staff(

staffNo VARCHAR(10),fName VARCHAR(10),lName VARCHAR(10),faculty VARCHAR(15),department VARCHAR(15),title VARCHAR(15),office VARCHAR(15),yearsWorked INT)

b) CREATE TABLE Workspace(

roomID VARCHAR(15),building VARCHAR(2),floor INT,roomNo INT,roomType VARCHAR(15))

c) CREATE TABLE Visitor(

visitorID VARCHAR(15),fName VARCHAR(10),lName VARCHAR(10),visiting VARCHAR(10),vTime DATE)

2.a) CREATE VIEW Staff2 AS
SELECT * FROM Staff
WHERE office IN (SELECT office FROM Staff st
WHERE st.title = 'Res. Asst.'
GROUP BY office
HAVING COUNT(office) > 1);

b) SELECT s.fname, s.lname, s.faculty, s.department
FROM Staff2 s
WHERE EXISTS
(SELECT a.office FROM Staff2 a
WHERE a.office = s.office
GROUP BY a.office
HAVING MAX(a.yearsworked) = s.yearsworked);

	FNAME	LNAME	FACULTY	DEPARTMENT
1	Donovan	Mendez	TF	BM
2	Zenia	Gould	TF	ETM
3	Octavia	Steele	TF	BM
4	Meghan	Herring	TF	EEM
5	Isaac	Gill	TF	OTO
6	Hermione	Mason	TF	BM
7	Stone	Brooks	TF	BM

All Rows Fetched: 7 in 0,228 seconds

c) DROP view staff2;

3.a) ALTER TABLE Staff
MODIFY fname VARCHAR(25) MODIFY lname VARCHAR(25);

ALTER TABLE Visitor
MODIFY fname VARCHAR(25) MODIFY lname VARCHAR(25);

b) ALTER TABLE Staff
ADD salary NUMBER(7,2)
ADD phoneNum VARCHAR(11)
ADD DOB DATE;

4.a)
```
DECLARE

    id NUMBER := 1;

    BEGIN

    FOR resAsst IN (SELECT * FROM Staff st WHERE st.title = 'Res. Asst.')

     LOOP

       FOR i IN 1..resAsst.yearsworked

         LOOP

         INSERT INTO Visitor VALUES('Z' || id, 'ad ' || id, 'soyad ' || id, resAsst.fname, SYSDATE +
id);

          id:= id+1;

          END LOOP;

       END LOOP;

      END;


SELECT * FROM visitor;
```

	VISITORID	FNAME	LNAME	VISITING	VTIME
1	z1	ad 1	soyad 1	Donovan	24/11/2020
2	z2	ad 2	soyad 2	Donovan	25/11/2020
3	z3	ad 3	soyad 3	Donovan	26/11/2020
4	z4	ad 4	soyad 4	Donovan	27/11/2020
5	z5	ad 5	soyad 5	Donovan	28/11/2020
6	z6	ad 6	soyad 6	Donovan	29/11/2020
7	z7	ad 7	soyad 7	Donovan	30/11/2020
8	z8	ad 8	soyad 8	Imogene	01/12/2020
9	z9	ad 9	soyad 9	Kerry	02/12/2020
10	z10	ad 10	soyad 10	Kerry	03/12/2020
11	z11	ad 11	soyad 11	Kerry	04/12/2020
12	z12	ad 12	soyad 12	Fletcher	05/12/2020
13	z13	ad 13	soyad 13	Fletcher	06/12/2020
14	z14	ad 14	soyad 14	Aaron	07/12/2020
15	z15	ad 15	soyad 15	Fredericka	08/12/2020
16	z16	ad 16	soyad 16	Fredericka	09/12/2020
17	z17	ad 17	soyad 17	Fredericka	10/12/2020
18	z18	ad 18	soyad 18	Candice	11/12/2020
19	z19	ad 19	soyad 19	Candice	12/12/2020
20	z20	ad 20	soyad 20	Candice	13/12/2020
21	z21	ad 21	soyad 21	Candice	14/12/2020
22	z22	ad 22	soyad 22	Candice	15/12/2020
23	z23	ad 23	soyad 23	Candice	16/12/2020
24	z24	ad 24	soyad 24	Candice	17/12/2020
25	z25	ad 25	soyad 25	Zenia	18/12/2020
26	z26	ad 26	soyad 26	Zenia	19/12/2020
27	z27	ad 27	soyad 27	Zenia	20/12/2020

28	z28	ad 28	soyad 28	Zenia	21/12/2020
29	z29	ad 29	soyad 29	Zenia	22/12/2020
30	z30	ad 30	soyad 30	Zenia	23/12/2020
31	z31	ad 31	soyad 31	Zenia	24/12/2020
32	z32	ad 32	soyad 32	Octavia	25/12/2020
33	z33	ad 33	soyad 33	Octavia	26/12/2020
34	z34	ad 34	soyad 34	Octavia	27/12/2020
35	z35	ad 35	soyad 35	Octavia	28/12/2020
36	z36	ad 36	soyad 36	Octavia	29/12/2020
37	z37	ad 37	soyad 37	Octavia	30/12/2020
38	z38	ad 38	soyad 38	Octavia	31/12/2020
39	z39	ad 39	soyad 39	Meghan	01/01/2021
40	z40	ad 40	soyad 40	Meghan	02/01/2021
41	z41	ad 41	soyad 41	Meghan	03/01/2021
42	z42	ad 42	soyad 42	Meghan	04/01/2021
43	z43	ad 43	soyad 43	Meghan	05/01/2021
44	z44	ad 44	soyad 44	Deborah	06/01/2021
45	z45	ad 45	soyad 45	Deborah	07/01/2021
46	z46	ad 46	soyad 46	Deborah	08/01/2021
47	z47	ad 47	soyad 47	Cadman	09/01/2021
48	z48	ad 48	soyad 48	Cadman	10/01/2021
49	z49	ad 49	soyad 49	Cadman	11/01/2021
50	z50	ad 50	soyad 50	Cadman	12/01/2021
51	z51	ad 51	soyad 51	Cadman	13/01/2021
52	z52	ad 52	soyad 52	Sage	14/01/2021
53	z53	ad 53	soyad 53	Sage	15/01/2021
54	z54	ad 54	soyad 54	Sage	16/01/2021
55	z55	ad 55	soyad 55	Isaac	17/01/2021
56	z56	ad 56	soyad 56	Isaac	18/01/2021
57	z57	ad 57	soyad 57	Isaac	19/01/2021
58	z58	ad 58	soyad 58	Isaac	20/01/2021
59	z59	ad 59	soyad 59	Isaac	21/01/2021
60	z60	ad 60	soyad 60	Isaac	22/01/2021
61	z61	ad 61	soyad 61	Isaac	23/01/2021
62	z62	ad 62	soyad 62	Tyrone	24/01/2021
63	z63	ad 63	soyad 63	Tyrone	25/01/2021
64	z64	ad 64	soyad 64	Hermione	26/01/2021
65	z65	ad 65	soyad 65	Stone	27/01/2021

b) DROP TABLE Visitor;