

a)

Pname	Pnumber	Plocation	Pnum
...
Newbenefits	30	Stafford	4
ProductA	4	Bellaire	2

b)

Pname	Pnumber	Mgr-ssn	Mgr-start_date
...
Hedabatters	1	88866555	1981-06-19
Production	4	943774543	1998-10-01

c)

Pno tablo için primary key ve not null kısıtlara sahip olmasına rağmen NULL verilmeye çalışılmış.
Varlık bütünlüğü ihlali nedeniyle sorgu çalışmaz. Ayrıca Hours double olmasına rağmen karakter dizisi verildiği için de sorgu yanlış olur.

d)

Pname	Pnumber	Plocation	Pnumber
ProductY	2	Sugarland	5
...

Essn	Pno	Hours
123456789	26	32.5
...
666884444	3	40.0
453453453	20	20.0
...

e)

Dname	Pnumber	Mgr-ssn	Mgr-start_date
Research	5	333445555	1988-05-22
Headquarters	1	888665555	1991-06-19

Fname	Minit	Lname	Ssn	Bdate	Address	Sex	Salary	S-ssn	Pno
...
Alicia	J	Zellers	899997777	1968-01-19	3321 Castle St.	F	25000	387654321	1
Jennifer	S	Wallace	997654321	1941-06-20	291 Berry Bell St.	F	43000	888665555	1
...
Ahmad	V	Jabbar	38787997	1969-03-29	980 Dallas, Houston	M	25000	987654321	1
...

Pname	Pnumber	Mgr-ssn	Mgr-start_date
...
Administra	2	987654321	1995-01-01
...

2)

2.1 SELECT Lname FROM Employee WHERE Salary > 3000;

2.2 SELECT AVG(Salary) FROM Employee WHERE Dno=4;

2.3 SELECT Hours FROM WORKS-ON GROUP BY 'Essa';

2.4

3)

3.a

b ₂	a ₁	a ₂	a ₃	a ₄
12	2	3	4	5
12	1	8	12	3
12	5	6	7	4

3.b

b ₃ /a ₁	a ₁	a ₂	a ₃	b ₁	b ₂
3	1	8	12	2	4

3.c

a ₁ , b ₁	a ₃ , b ₂	a ₂	a ₄	b ₃
2	4	3	5	3

3.d

b ₁	b ₂	b ₃	a ₁	a ₂	a ₃
2	4	3	2	3	4
4	12	11	1	8	12
null	null	null	5	6	7

3.e

d ₁	d ₂	d ₃
4	3	
6	1	
4		
4		
7	2	
7		
6		
7		

3.f

c _i
4

4)

4.1

Name
Smith
Brown

4.2

GRADE-REPORT Student-number	Sum (Credit-hours)	Count (*)
17	7	2
8	14	4

4.3

Name	Course-name	C. Course-number	Credit-hour	Semest	Yr	Grade
Smith	Intro to computer science	CS 1310	4	Fall	02	C
Smith	Discrete mathematics	MATH 2410	3	Fall	02	B