

# به نام خدا

نام : **عماد**

نام خانوادگی : **آقاجانی**

شماره دانشجویی : ۸۸۵۲۱۳۴۴

تکلیف شماره ۱

توضیحات :

برای راحتی خواندن کد ها، تمام کد ها بدون هیچ توضیحی در

فایلی جدا به اسم **sql** . \*\*\* هم قرار داده شده 😊

اونجوری با *Notepad++* یا هرچیز دیگه میتونین رنگی مطالعه کنین

و راجت تر متوجه بشین چیکار کردم ..

1)

A.

```
Select EatsAt.ResturantName
From EatsAt, Person
Where ( EatsAt.pname = Person.pname AND Person.age<18 ) ;
```

B.

```
Select Person.pname
From Eats, Person
Where ( Eats.pname = Person.pname AND Person.gender='male'
      AND ( Eats.foodname='X' OR Eats.foodname='Y') );
```

C.

```
Select Person.pname
From Eats, Person
Where ( Eats.pname = Person.pname AND Person.gender='male'
      AND Eats.foodname='X' AND Person.pname in( Select pname From Eats
                                                    Where
foodName='Y' ) )
```

D.

```
Select ResturantMenue.ResturantName
From EatsAt, Eats, ResturantMenue
Where Eats.pname = EatsAt.pname AND Eats.foodName=ResturantMenue.foodName
      AND ResturantMenue.ResturantName=EatsAt.ResturantName AND price<5000
Eats.pname='P' ;
```

E.I ( راه حل اول )

```
Select pname
```

```
From Person
```

```
Where ( Select COUNT(*) From EatsAt
```

```
Where EatsAt.pname = Persons.pname) =
```

```
( Select COUNT(*)
```

```
From ( Select * From Eats
```

```
Where pname=Person.pname ) as Fp, ( Select * Fr
```

```
EatsAt
```

```
Where EatsAt.pname = Persons.pname) as Rp
```

```
Where Fp.foodName = Rp.foodname );
```

E.II ( راه حل دوم )

```
Select DISTINCT Person.pName
```

```
From Person, EatsAt, Eats, ResturantMenu
```

```
Where Person.pName=EatsAt.pName AND Person.pName=Eats.pName
```

```
AND EatsAt.ResturantName=ResturantMenu.ResturantName
```

```
AND Eats.foodName=ResturantMenu.foodName
```

2)

برای تمام قسمت های سوال ۲، دوره حل ( I و II ) ارایه دادم که اگر یکی اخیانا غلط بود، اونیکی درست باشه. D :

A.I

```
Select Student.*
```

```
From Register, Student
```

```
Where Student.sid=Register.sid AND Register.date<D
```

```
AND Register.cid IN ( Select cid From Course Where prof='X' ) ;
```

A.II

```
Select Student.*  
  
From Register, Student, Course  
  
Where Student.sid=Register.sid AND Register.date<D  
      AND Course.prof='X' AND Course.cid=Register.cid ;
```

B.I

```
select title  
  
From Course  
  
Where cid IN ( Select cid From Register  
              Where termNo='891' ) ;
```

B.II

```
select Course.title  
  
From Course, Register  
  
Where Course.cid=Register.cid AND termNo='891' ;
```

C.I

```
Select *  
  
From Student  
  
Where Not Exist ( Select * From Register  
                 Where Student.sid=sid );
```

C.II

```
Select sid, sname  
  
From Student  
  
minus Select Student.sid, Student.sname From Register, Student  
      Where Register.sid=Student.sid ;
```

برای این قسمت (D) دقیقاً متوجه سوال نشدم و از دو راه، حل کردم.

۱. دانشجویانی که در ترم جاری در هر دو کلاس C1 و C2 شرکت کرده اند

۲. دانشجویانی که در ترم جاری در کلاس C1 یا C2 شرکت کرده اند

D.I C1 AND C2 ?

```
Select DISTINCT Student.*
```

```
From Student, Course as C1, Course as c2, Register as R1, Resgister as R2
```

```
Where Student.sid=R1.sid AND Student.sid=R2.sid
```

```
AND R1.termNo='CurTermNo' AND R2.termNo='CurTermNo'
```

```
AND R1.cid = C1.cid AND C1.title='C1'
```

```
AND R2.cid = C2.cid AND C2.title='C2'
```

D.II C1 OR C2 ?

```
Select DISTINCT Student.*
```

```
From Student, Register, Course
```

```
Where Student.sid=Register.sid AND Register.termNo='CurTermNo'
```

```
AND Register.cid = Course.cid
```

```
AND ( Course.title='C1' OR Course.title='C2' )
```

• سوال ۳ علایم نا آشنا داشت و پرسیدم از بچه ها گفتند نباید حل کنیم..

با تشکر

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