

Query:01

SELECT substr(job,1,3) as "Sub"

From emp

Query:02

SELECT ename,job

From emp

Where comm is not NULL

OR lower(job) <> 'clerk'

Query:03

SELECT ename,deptno,avg(sal)

From emp

Where initcap(job)<>'Clerk'

Group by deptno,ename

Query:04

SELECT ename , sal

from emp

Where sal<(select distinct sal

from emp

where lower(ename)='james')

And job=(select distinct job

from emp

where lower(ename)='james')

Query:05

Update

emp

Set

Job='clerk',

Sal=12

Where lower(ename)='james'

Query:06

SELECT max(sal)

From emp

Having max(sal)<(select max(sal)

From dept

Where deptno=10

Group by deptno

)

Group by deptno

Query:07

INSERT INTO dept(deptno,dname,loc)

VALUES (60,'marketing','Lahore');

Query:08

SELECT LOC

FROM EMP,DEPT

Where emp.deptno=dept.deptno

AND initcap(job)='President'

Query:09

SELECT LOC

FROM EMP,DEPT

Where emp.deptno=dept.deptno

AND initcap(job)='President'

/*Duplicate questions*/

Query:10

SELECT COMM

FROM EMP,DEPT

Where emp.deptno=dept.deptno

AND initcap(loc)='Chicago'

Student (s#: integer, sname: string, major: string, level: string, age: integer)

Class (name: string, meets_at: time, room: string, f#: integer)

Enrolled (s#: integer, cname: string)

Faculty (f#: integer, fname: string, dept#: integer)

Query:01

SELECT S.sname

FROM Student S

WHERE S.level = 'JR'

ORDERED BY S.age

Query:02

SELECT MAX(S.age)

FROM Student S

WHERE (S.major = 'History')

OR S. # IN (SELECT E.s#

FROM Class C, Enrolled E, Faculty F

WHERE E.cname = C.name

AND C.f# = F.f#

AND F.fname = 'M.Ali')

Query:03

```
SELECT DISTINCT cname
FROM class
WHERE room='R128'
OR
cname IN (SELECT e.cname
          FROM enrolled e
          GROUP BY e.cname
          HAVING COUNT(*)>=5);
```

Query:04

```
SELECT DISTINCT s.sname
FROM student s
WHERE s.s# IN (SELECT e1.s#
              FROM enrolled e1,enrolled e2,class c1,class c2
              WHERE e1.s#=e2.s#  AND
                    e1.cname<>e2.cname  AND
                    e1.cname=c1.cname  AND
                    e2.cname=c2.cname  AND
                    c1.meets_at=c2.meets_at );
```

Query:05

```
SELECT f.fname
FROM faculty f
WHERE f.f# in ( SELECT f#
               FROM class
               GROUP BY f#
               HAVING COUNT(*)=(SELECT COUNT(DISTINCT room)
```

FROM class));

Query:06

```
SELECT DISTINCT f.fname
FROM faculty f
WHERE f.f# IN ( SELECT c.f#
                FROM class c, enrolled e
                WHERE c.cname = e.cname
                GROUP BY c.cname
                HAVING COUNT(c.cname)< 5 );
```

Query:07

```
SELECT S.level, AVG(S.age)
FROM Student S
GROUP BY S.level
```

Query:08

```
SELECT S.level, AVG(S.age)
FROM Student S
WHERE S.level <> 'JR'
GROUP BY S.level
```

Query:09

[illegible]

GROUP BY E2.s#))

Query:10

SELECT DISTINCT S.sname

FROM Student S

WHERE S.s# NOT IN (SELECT E.s#

FROM Enrolled E)