

## 5420 Assignment-2-Team-19

SQL Workspace name: tejasviworkspace

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The “CreateTables.sql” and “InsertRecords.sql” scripts have been uploaded and executed successfully in Oracle Apex workspace.

The various SQL code(s) for the respective scenarios in the questions are mentioned below.

### Query 01:

```
select * from DEMO_CLASSROOM;
```

**Result:**

CRID	DESCR	CAP
BA 116	BA 116	220
BA 250	BA 250	40
BA 356	BA 356	50
BO 115	Biology 115	70
CR 204	Curry 204	110
CR 205	Curry 205	110
CR 121	Computer Science 212	50
LA 200	Language 200	65
MU 245	Music 245	50
PH 110	Physics 110	250

10 rows returned in 0.04 seconds

```
Select * from DEMO_REGISTRATION;
```

**Result:**

RID	SID	CID
R01	S01	C03
R02	S02	C03
R03	S02	C06

R04	S03	C01
R05	S03	C06
R06	S03	C07
R07	S04	C01
R08	S04	C03
R09	S04	C07
R10	S05	C06
R11	S05	C07
R12	S06	C02
R13	S06	C06
R14	S07	C06
R15	S07	C07
R16	S08	C03
R17	S08	C05
R18	S09	C02
R19	S09	C05
R20	S09	C07
R21	S01	C08
R22	S02	C09
R23	S05	C08
R24	S06	C09
R25	S01	C09

25 rows returned in 0.00  
seconds

Select \* from DEMO\_COURSE;

**Result:**

CID	TITLE	IID	HOUR	CRID
C01	Introduction to Business	I01	3	BA 116

C02	Introduction to Business	I06	3	CR 204
C03	Business Communications	I03	3	CR 205
C04	Business Ethics	I01	2	BA 356
C05	Economic Policies	I06	2	BO 115
C06	Computer Programming	I02	3	CR 121
C07	Statistics	I04	3	PH 110
C08	Database	I05	3	BA 356
C09	Java	I02	3	BA 250

9 rows returned in 0.03 seconds

Select \* from DEMO\_INSTRUCTOR;

**Result:**

IID	NAME	DEPT
I01	Becker	BCIS
I02	Lee	Computer
I03	Ferguson	English
I04	Harvey	Statistics
I05	Koh	BCIS
I06	Kent	Economics

6 rows returned in 0.03 seconds

Select \* from DEMO\_STUDENT;

**Result:**

SID	NAME	MAJOR	YEAR	GPA
S01	Bird	Philosophy	2	3.5

S02	Austin	English	2	3.7
S03	Scott	Statistics	3	2.5
S04	Coleman	Business	1	1.4
S05	Jefferson		2	1.8
S06	Newsome	Business	1	2.9
S07	Hampton	Computer	2	2.4
S08	Hartman	Business	1	3.2
S09	Jones	Computer	4	3.9
S10	Oldham	Business	1	3

10 rows returned in 0.03 seconds

### Query 02:

```
select NAME, YEAR, GPA from DEMO_STUDENT where MAJOR = 'Business'
order by YEAR desc;
```

Result:

NAME	YEAR	GPA
Coleman	1	1.4
Oldham	1	3
Hartman	1	3.2
Newsome	1	2.9

### Query 03:

```
select CID, TITLE, CRID from DEMO_COURSE WHERE IID='I06';
```

**Result:**

CID	TITLE	CRID
C02	Introduction to Business	CR 204
C05	Economic Policies	BO 115

2 rows returned in 0.01 seconds

#### **Query 04:**

```
select DEMO_COURSE.CID, DEMO_COURSE.TITLE, DEMO_CLASSROOM.CAP,  
DEMO_CLASSROOM.DESCR from DEMO_COURSE
```

```
INNER JOIN DEMO_CLASSROOM ON DEMO_CLASSROOM.CRID =  
DEMO_COURSE.CRID
```

```
Where DEMO_CLASSROOM.DESCR = 'Curry 205';
```

**Result:**

CID	TITLE	CAP	DESCR
C03	Business Communications	110	Curry 205

1 rows returned in 0.04 seconds

#### **Query 05:**

```
Select IID, COUNT IID from DEMO_COURSE GROUP BY IID having COUNT (IID)>1;
```

**Result:**

IID	COUNT(IID)
I06	2
I02	2
I01	2

3 rows returned in 0.00 seconds

### Query 06:

Select \* from DEMO\_COURSE where IID In

(select IID from DEMO\_COURSE

group by IID

having Count (IID) >1) and (TITLE like '%Business%') or (HOUR <= 2);

### Result:

CID	TITLE	IID	HOUR	CRID
C01	Introduction to Business	I01	3	BA 116
C02	Introduction to Business	I06	3	CR 204
C04	Business Ethics	I01	2	BA 356
C05	Economic Policies	I06	2	BO 115

4 rows returned in 0.03 seconds

### Query 07:

```
SELECT DEMO_INSTRUCTOR.NAME, DEMO_INSTRUCTOR.DEPT
FROM DEMO_COURSE
```

```

INNER JOIN DEMO_INSTRUCTOR ON DEMO_COURSE.IID =
DEMO_INSTRUCTOR.IID

GROUP BY DEMO_COURSE.IID, DEMO_INSTRUCTOR.IID,
DEMO_INSTRUCTOR.NAME, DEMO_INSTRUCTOR.DEPT

HAVING COUNT (DEMO_COURSE.IID) = 1;

```

**Result:**

NAME	DEPT
Ferguson	English
Koh	BCIS
Harvey	Statistics

3 rows returned in 0.05 seconds

## Query 08:

```

SELECT CID, COUNT(SID) AS STUDENTCOUNT FROM DEMO_REGISTRATION
GROUP BY CID;

```

**Result:**

CID	STUDENTCOUNT
C05	2
C08	2
C06	5
C01	2
C03	4
C02	2
C07	5
C09	3

8 rows returned in 0.04 seconds



### Query 09:

Select \* from demo\_course where CID in  
(Select CID from demo\_registration group by CID having count (CID) > 4);

#### Result:

CID	TITLE	IID	HOUR	CRID
C06	Computer Programming	I02	3	CR 121
C07	Statistics	I04	3	PH 110

2 rows returned in 0.03 seconds

### Query 10:

Select \* from DEMO\_CLASSROOM where CAP IN  
(select CAP from DEMO\_CLASSROOM group by CAP having count(CAP)>1)  
AND CRID != DESCR;

#### Result:

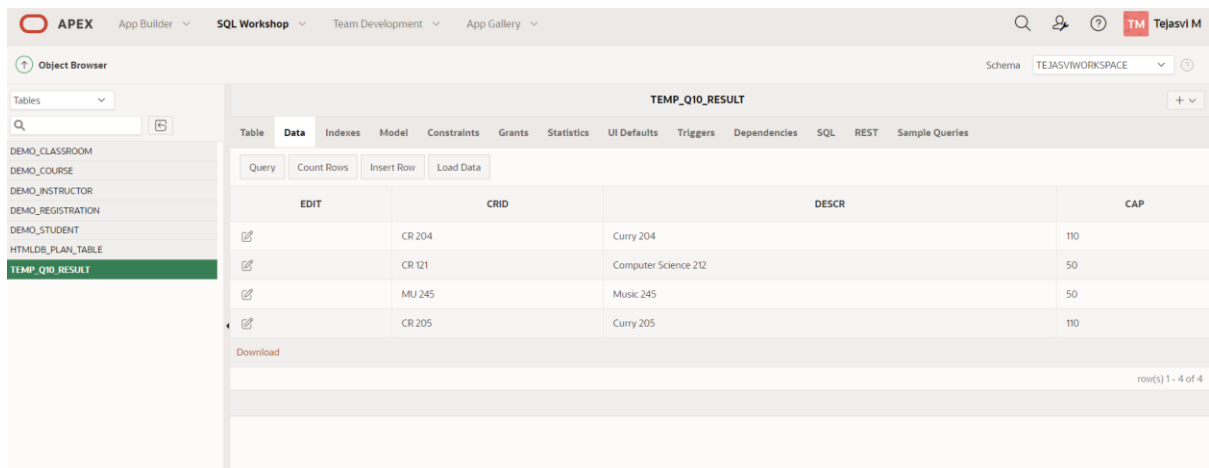
CRID	DESCR	CAP
CR 121	Computer Science 212	50
CR 205	Curry 205	110
CR 204	Curry 204	110
MU 245	Music 245	50

4 rows returned in 0.02 seconds

## Query 11:

```
CREATE TABLE Temp_Q10_Result AS (Select * from DEMO_CLASSROOM where  
CAP IN  
(select CAP from DEMO_CLASSROOM group by CAP having count(CAP)>1)  
AND CRID != DESCR);
```

## Result:



EDIT	CRID	DESCR	CAP
	CR 204	Curry 204	110
	CR 121	Computer Science 212	50
	MU 245	Music 245	50
	CR 205	Curry 205	110

Download

row(s) 1 - 4 of 4

## Query 12:

```
SELECT DISTINCT YEAR, AVG(GPA) FROM DEMO_STUDENT GROUP BY YEAR  
ORDER BY YEAR ASC;
```

## Result:

YEAR	AVG(GPA)
1	2.625
2	2.85
3	2.5
4	3.9

4 rows returned in 0.01 seconds

### Query 13:

```
SELECT DISTINCT YEAR, AVG (GPA), ROW_NUMBER() OVER (ORDER BY AVG (GPA)
ASC) ROWNUMBER FROM DEMO_STUDENT GROUP BY AVG(GPA) ASC;
```

Result:

YEAR	AVG(GPA)	ROWNUMBER
3	2.5	1
1	2.625	2
2	2.85	3
4	3.9	4

4 rows returned in 0.01 seconds

### Query 14:

```
Select YEAR, AvgGPA from(
select YEAR, AVG(GPA) as AvgGPA, Row_number() over (order by AVG(GPA))
as rownumber from DEMO_STUDENT
group by YEAR
order by rownumber) X where rownumber =1;
```

Result:

YEAR	AVGGPA
3	2.5

1 rows returned in 0.01 seconds

### Query 15:

```
SELECT * FROM DEMO_STUDENT WHERE YEAR = '1' AND GPA < 2;
```

Result:

SID	NAME	MAJOR	YEAR	GPA
S04	Coleman	Business	1	1.4

1 rows returned in 0.00 seconds

### Query 16:

```
SELECT DEMO_REGISTRATION.SID, DEMO_REGISTRATION.CID FROM  
DEMO_REGISTRATION  
INNER JOIN DEMO_STUDENT ON DEMO_REGISTRATION.SID = DEMO_STUDENT.SID  
WHERE DEMO_STUDENT.MAJOR = 'COMPUTER';
```

Result:

SID	CID
S07	C06
S07	C07
S09	C02
S09	C05
S09	C07

5 rows returned in 0.01 seconds

### Query 17:

```
SELECT DEMO_COURSE.CID, DEMO_COURSE.TITLE, DEMO_COURSE.IID,
```

```

        DEMO_COURSE.HOUR, DEMO_COURSE.CRID FROM DEMO_COURSE
    INNER JOIN DEMO_REGISTRATION ON DEMO_REGISTRATION.CID = DEMO_COURSE.CID
    INNER JOIN DEMO_STUDENT ON DEMO_STUDENT.SID = DEMO_REGISTRATION.SID
    WHERE DEMO_STUDENT.MAJOR = 'COMPUTER';

```

**Result:**

CID	TITLE	IID	HOUR	CRID
C02	Introduction to Business	I06	3	CR 204
C05	Economic Policies	I06	2	BO 115
C06	Computer Programming	I02	3	CR 121
C07	Statistics	I04	3	PH 110
C07	Statistics	I04	3	PH 110

5 rows returned in 0.02 seconds

App Builder
SQL Workshop
Team Development
App Gallery

SQL Commands

Schema
TEJASVIWORKSPACE

Rows
10
Clear Command
Find Tables

Save
Run

```

1 SELECT DEMO_COURSE.CID, DEMO_COURSE.TITLE, DEMO_COURSE.IID, DEMO_COURSE.HOUR, DEMO_COURSE.CRID FROM DEMO_COURSE
2 INNER JOIN DEMO_REGISTRATION ON DEMO_REGISTRATION.CID = DEMO_COURSE.CID
3 INNER JOIN DEMO_STUDENT ON DEMO_STUDENT.SID = DEMO_REGISTRATION.SID
4 WHERE DEMO_STUDENT.MAJOR = 'Computer';

```

Results
Explain
Describe
Saved SQL
History

CID	TITLE	IID	HOUR	CRID
C02	Introduction to Business	I06	3	CR 204
C05	Economic Policies	I06	2	BO 115
C06	Computer Programming	I02	3	CR 121
C07	Statistics	I04	3	PH 110
C07	Statistics	I04	3	PH 110

5 rows returned in 0.04 seconds
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