

DBMS Assignment - 3

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Section -: C

Roll No. -: 31

Subject -: DBMS Lab (BCSC 0808)

Submitted To -: Mr. Neeraj Gupta

NOTE: [Github link for Script](#)

QUERY EXERCISE - 1:

-- Q1. Produce a combine table in which each student is combine with every other application

-- By cardinality

```
SELECT *  
FROM STUDENT, APPLY  
ORDER BY STUDENT.SID;
```

-- By JOIN

```
SELECT *  
FROM STUDENT  
CROSS JOIN APPLY  
ORDER BY STUDENT.SID;
```

OUTPUT:

SID	SNAME	GPA	SIZES	SID	CNAME	MAJOR	DECISION
123	Amy	3.9	1000	123	Stanford	CS	Y
123	Amy	3.9	1000	543	MIT	CS	N
123	Amy	3.9	1000	123	Berkeley	CS	Y
123	Amy	3.9	1000	123	Cornell	EE	Y
123	Amy	3.9	1000	234	Berkeley	biology	N
123	Amy	3.9	1000	345	MIT	bioengineering	Y
123	Amy	3.9	1000	345	Cornell	bioengineering	N
123	Amy	3.9	1000	345	Cornell	CS	Y
123	Amy	3.9	1000	345	Cornell	EE	N
123	Amy	3.9	1000	678	Stanford	history	Y
123	Amy	3.9	1000	987	Stanford	CS	Y
123	Amy	3.9	1000	987	Berkeley	CS	Y
123	Amy	3.9	1000	876	Stanford	CS	N
123	Amy	3.9	1000	876	MIT	biology	Y
123	Amy	3.9	1000	876	MIT	marine biology	N
123	Amy	3.9	1000	765	Stanford	history	Y
123	Amy	3.9	1000	765	Cornell	history	N
123	Amy	3.9	1000	765	Cornell	psychology	Y
123	Amy	3.9	1000	123	Stanford	EE	N
714	Roh	3.6	1500	123	Stanford	CS	Y

-- Q2. Give Student ID, name, GPA and name of college and major each student applied to.

-- By cardinality

```
SELECT  
STUDENT.SID, STUDENT.GPA, APPLY.cName, APPLY.major
```

```

FROM STUDENT,
     APPLY
WHERE STUDENT.SID = APPLY.SID
ORDER BY STUDENT.SID;

-- By join
SELECT
    STUDENT.SID, STUDENT.GPA, APPLY.cName,APPLY.major
FROM STUDENT
     INNER JOIN APPLY ON STUDENT.SID = APPLY.SID
ORDER BY STUDENT.SID;

```

OUTPUT:

SID	GPA	CNAME	MAJOR
123	3.9	Berkeley	CS
123	3.9	Stanford	CS
123	3.9	Cornell	EE
123	3.9	Stanford	EE
234	3.6	Berkeley	biology
345	3.5	Cornell	CS
345	3.5	Cornell	EE
345	3.5	Cornell	bioengineering
345	3.5	MIT	bioengineering
543	3.4	MIT	CS
678	3.8	Stanford	history
765	2.9	Cornell	history
765	2.9	Stanford	history
765	2.9	Cornell	psychology
876	3.9	Stanford	CS
876	3.9	MIT	marine biology
876	3.9	MIT	biology
987	3.7	Berkeley	CS
987	3.7	Stanford	CS

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```

-- Q3.Find detail of applications who applied to California State.
-- By cardinality
SELECT
    Apply.SID, Apply.cName, Apply.major, Apply.decision
FROM
    APPLY, COLLEGE
WHERE APPLY.cName = COLLEGE.collegeName
     AND college.state = 'CA'
ORDER BY APPLY.SID;

-- By join
SELECT
    Apply.SID, Apply.cName, Apply.major, Apply.decision
FROM APPLY
     INNER JOIN COLLEGE ON APPLY.cName = COLLEGE.collegeName
WHERE College.state = 'CA'
ORDER BY APPLY.SID;

```

OUTPUT:

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SID	CNAME	MAJOR	DECISION
123	Stanford	CS	Y
123	Stanford	EE	N
123	Berkeley	CS	Y
234	Berkeley	biology	N
678	Stanford	history	Y
765	Stanford	history	Y
876	Stanford	CS	N
987	Stanford	CS	Y
987	Berkeley	CS	Y

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```
-- Q4.IDs,name,GPA of studentsand name of college with GPA > 3.7 applying to
Stanford
-- By cardinality
SELECT DISTINCT
    STUDENT.SID, STUDENT.SName, STUDENT.GPA, APPLY.CName
FROM
    STUDENT, APPLY
WHERE STUDENT.SID = APPLY.SID
    AND STUDENT.GPA > 3.7
    AND APPLY.CName = 'Stanford'
ORDER BY STUDENT.SID;

-- By join
SELECT DISTINCT
    STUDENT.SID, STUDENT.SName, STUDENT.GPA, APPLY.CName
FROM STUDENT
    INNER JOIN APPLY ON STUDENT.SID = APPLY.SID
WHERE STUDENT.GPA > 3.7
    AND APPLY.CName = 'Stanford'
ORDER BY STUDENT.SID;
```

OUTPUT:

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SID	SNAME	GPA	CNAME
123	Amy	3.9	Stanford
678	Fay	3.8	Stanford
876	Irene	3.9	Stanford

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-- Q5. Find detail of Student who apply to CS major and their application are rejected

-- By cardinality

SELECT

STUDENT.sID, STUDENT.sName, STUDENT.GPA, STUDENT.sizeHS

FROM

STUDENT, APPLY

WHERE STUDENT.sID = APPLY.sID

AND APPLY.decision = 'N'

AND APPLY.major = 'CS'

ORDER BY STUDENT.sID;

-- By join

SELECT

STUDENT.sID, STUDENT.sName, STUDENT.GPA, STUDENT.sizeHS

FROM STUDENT

INNER JOIN APPLY ON STUDENT.sID = APPLY.sID

WHERE APPLY.decision = 'N'

AND APPLY.major = 'CS'

ORDER BY STUDENT.sID;

OUTPUT:

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SID	SNAME	GPA	SIZEHS
543	Craig	3.4	2000
876	Irene	3.9	400

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```
-- Q6. Find detail of student and application who applied to colleges at New
York
-- By cardinality
SELECT
    Student.sID, Student.sName, Student.GPA, Student.sizeHS,
    Apply.cName, Apply.major, Apply.decision
FROM
    Student, Apply, College
WHERE Student.sID = Apply.sID
    AND Apply.cName = College.collegeName
    AND College.state = 'NY';

-- By join
SELECT
    STUDENT.sID, STUDENT.sName, STUDENT.GPA, STUDENT.sizeHS,
    Apply.cName, Apply.major, Apply.decision
FROM STUDENT
    INNER JOIN APPLY ON STUDENT.sID = APPLY.sID
    INNER JOIN COLLEGE ON COLLEGE.collegeName = APPLY.cName
WHERE COLLEGE.state = 'NY'
ORDER BY STUDENT.sID;
```

OUTPUT:

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SID	SNAME	GPA	SIZEHS	CNAME	MAJOR	DECISION
123	Amy	3.9	1000	Cornell	EE	Y
345	Craig	3.5	500	Cornell	bioengineering	N
345	Craig	3.5	500	Cornell	CS	Y
345	Craig	3.5	500	Cornell	EE	N
765	Jay	2.9	1500	Cornell	history	N
765	Jay	2.9	1500	Cornell	psychology	Y

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```
-- Q7.Find detail of student who have not applied to any of college
-- By Subquery
SELECT *
FROM STUDENT
WHERE STUDENT.SID NOT IN (
    SELECT DISTINCT SID
    FROM APPLY
);
```

OUTPUT:

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SID	SNAME	GPA	SIZEHS
567	Edward	2.9	2000
654	Amy	3.9	1000
456	Doris	3.9	1000
789	Gary	3.4	800

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4 rows selected.

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```
-- Q8. Find college where no student have applied
-- By Subquery
SELECT COLLEGE.collegeName
FROM COLLEGE
WHERE COLLEGE.collegeName NOT IN (
    SELECT DISTINCT cName
    FROM APPLY
);
```

OUTPUT:

Oracle Live SQL interface showing the output of the first query. The table displays the following result:

COLLEGEName
Harvard

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```
-- Q9. Find SID who have only one application
SELECT SID
FROM APPLY
GROUP BY SID
HAVING COUNT(SID) = 1;
```

OUTPUT:

Oracle Live SQL interface showing the output of the second query. The table displays the following results:

SID
234
543
678

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3 rows selected.

-- Q10. Find name and GPA of applicants who apply to any college whose enrollment is not more than 25000.

-- By cardinality

```
SELECT DISTINCT
    STUDENT.sName, STUDENT.GPA
FROM
    STUDENT, APPLY, College
WHERE STUDENT.sID = APPLY.sID
    AND APPLY.cName = COLLEGE.collegeName
    AND COLLEGE.enrollment < 25000;
```

-- By join

```
SELECT DISTINCT
    STUDENT.sName, STUDENT.GPA
FROM STUDENT
    INNER JOIN APPLY ON STUDENT.sID = APPLY.sID
    INNER JOIN COLLEGE ON APPLY.cName = COLLEGE.collegeName
WHERE enrollment < 25000;
```

OUTPUT:

SNAME	GPA
Craig	3.4
Amy	3.9
Craig	3.5
Helen	3.7
Fay	3.8
Jay	2.9
Irene	3.9

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7 rows selected.

-- Q11. Find pair of students (sID) having same GPA. (each pair should occur just once in result)

-- By cardinality

```
SELECT DISTINCT
    sID1.sID, sID2.sID
FROM STUDENT sID1
    INNER JOIN STUDENT sID2 ON sID1.GPA = sID2.GPA
WHERE sID1.sID != sID2.sID
    AND sID1.sID > sID2.sID;
```


OUTPUT:

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SID	SID
456	123
876	123
654	123
876	456
654	456
765	567
876	654
789	543

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8 rows selected.

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QUERY EXERCISE - 2:

```
-- Q12. Find student and major he / she applied to.
-- By cross join
SELECT
    STUDENT.sName, APPLY.major
FROM
    STUDENT CROSS JOIN APPLY
WHERE STUDENT.SID = APPLY.SID
GROUP BY STUDENT.sName, APPLY.major;

-- By natural join
SELECT
    STUDENT.sName, APPLY.major
FROM STUDENT
    NATURAL JOIN APPLY
GROUP BY STUDENT.sName, APPLY.major;

-- By inner
SELECT
    STUDENT.sName, APPLY.major
FROM STUDENT
    INNER JOIN APPLY ON STUDENT.SID = APPLY.SID
GROUP BY STUDENT.sName, APPLY.major;
```

OUTPUT:

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SNAME	MAJOR
Craig	EE
Irene	CS
Amy	EE
Jay	history
Amy	CS
Bob	biology
Craig	CS
Jay	psychology
Craig	bioengineering
Irene	biology
Irene	marine biology
Fay	history
Helen	CS

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13 rows selected.

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-- Q13. Find detail of student who came from high school have size less than 20000 and applied to CS at Stanford.

-- By cross join

SELECT

STUDENT.SID, STUDENT.SName, STUDENT.GPA, STUDENT.sizeHS

FROM

STUDENT CROSS JOIN APPLY

WHERE STUDENT.SID = APPLY.SID

AND STUDENT.sizeHS < 20000

AND APPLY.major = 'CS'

AND APPLY.cName = 'Stanford';

-- By natural join

SELECT

SID, SName, GPA, sizeHS

FROM STUDENT

NATURAL JOIN APPLY

WHERE STUDENT.sizeHS < 20000

AND APPLY.major = 'CS'

AND APPLY.cName = 'Stanford';

-- By inner join

SELECT

STUDENT.SID, STUDENT.SName, STUDENT.GPA, STUDENT.sizeHS

FROM STUDENT

INNER JOIN APPLY ON STUDENT.SID = APPLY.SID

WHERE STUDENT.sizeHS < 20000

AND APPLY.major = 'CS'

AND APPLY.cName = 'Stanford';

OUTPUT:

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SID	SNAME	GPA	SIZES
123	Amy	3.9	1000
987	HeLen	3.7	800
876	Irene	3.9	400

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3 rows selected.

SID	SNAME	GPA	SIZES
123	Amy	3.9	1000
987	HeLen	3.7	800
876	Irene	3.9	400

Download CSV
3 rows selected.

SID	SNAME	GPA	SIZES
123	Amy	3.9	1000
987	HeLen	3.7	800
876	Irene	3.9	400

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```
-- Q14. Provide complete detail of each student where they applied what major
they applied to what was the
--      decision and complete detail of COLLEGE they applied.
```

```
-- By cross join
```

```
SELECT *
FROM
    STUDENT CROSS JOIN APPLY CROSS JOIN COLLEGE
WHERE STUDENT.SID = APPLY.SID
    AND APPLY.cName = COLLEGE.COLLEGEName
ORDER BY STUDENT.SName, STUDENT.SID;
```

```
-- By natural join
```

```
SELECT *
FROM STUDENT
    NATURAL JOIN APPLY
        INNER JOIN COLLEGE ON APPLY.cName = COLLEGE.COLLEGEName
ORDER BY sName, SID;
```

```
-- By inner join
```

```
SELECT *
FROM STUDENT
    INNER JOIN APPLY ON APPLY.SID = STUDENT.SID
        INNER JOIN COLLEGE ON APPLY.cName = COLLEGE.COLLEGEName
ORDER BY STUDENT.SName, STUDENT.SID;
```

OUTPUT:

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SID	SNAME	GPA	SIZEHS	SID	CNAME	MAJOR	DECISION	COLLEGENAME	STATE	ENROLLMENT
123	Amy	3.9	1000	123	Stanford	CS	Y	Stanford	CA	15000
123	Amy	3.9	1000	123	Stanford	EE	N	Stanford	CA	15000
123	Amy	3.9	1000	123	Berkeley	CS	Y	Berkeley	CA	36000
123	Amy	3.9	1000	123	Cornell	EE	Y	Cornell	NY	21000
234	Bob	3.6	1500	234	Berkeley	biology	N	Berkeley	CA	36000
345	Craig	3.5	500	345	MIT	bioengineering	Y	MIT	MA	10000
345	Craig	3.5	500	345	Cornell	bioengineering	N	Cornell	NY	21000
345	Craig	3.5	500	345	Cornell	CS	Y	Cornell	NY	21000
345	Craig	3.5	500	345	Cornell	EE	N	Cornell	NY	21000
543	Craig	3.4	2000	543	MIT	CS	N	MIT	MA	10000
678	Fay	3.8	200	678	Stanford	history	Y	Stanford	CA	15000
987	Helen	3.7	800	987	Berkeley	CS	Y	Berkeley	CA	36000
987	Helen	3.7	800	987	Stanford	CS	Y	Stanford	CA	15000
876	Irene	3.9	400	876	Stanford	CS	N	Stanford	CA	15000
876	Irene	3.9	400	876	MIT	biology	Y	MIT	MA	10000
876	Irene	3.9	400	876	MIT	marine biology	N	MIT	MA	10000
765	Jay	2.9	1500	765	Stanford	history	Y	Stanford	CA	15000
765	Jay	2.9	1500	765	Cornell	history	N	Cornell	NY	21000
765	Jay	2.9	1500	765	Cornell	psychology	Y	Cornell	NY	21000

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```
-- Q15. Names and GPAs of students with HS>1000 who applied to CS and were rejected.
```

```
-- By cross join
```

```
SELECT
    STUDENT.sName, STUDENT.GPA
FROM
    STUDENT CROSS JOIN APPLY
WHERE
    STUDENT.sID = APPLY.sID
    AND STUDENT.sizeHS > 1000
    AND APPLY.major = 'CS'
    AND APPLY.decision = 'N'
ORDER BY STUDENT.sName , STUDENT.sID;
```

```
-- By natural join
```

```
SELECT
    STUDENT.sName, STUDENT.GPA
FROM
    STUDENT
    NATURAL JOIN APPLY
WHERE
    STUDENT.sizeHS > 1000
    AND APPLY.major = 'CS'
    AND APPLY.decision = 'N'
ORDER BY sName, sID;
```

```
-- By inner join
```

```
SELECT
    STUDENT.sName, STUDENT.GPA
FROM
    STUDENT
    INNER JOIN APPLY ON STUDENT.sID = APPLY.sID
WHERE
    STUDENT.sizeHS > 1000
    AND APPLY.major = 'CS'
    AND APPLY.decision = 'N'
ORDER BY STUDENT.sName , STUDENT.sID;
```

OUTPUT:

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SNAME	GPA
Craig	3.4

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SNAME	GPA
Craig	3.4

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SNAME	GPA
Craig	3.4

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-- Q16. Names and GPAs of students with HS>1000 who applied to CS at college with enr>20,000 and were rejected

-- By cross join

SELECT

STUDENT.sName, STUDENT.GPA

FROM

STUDENT CROSS JOIN

APPLY CROSS JOIN

COLLEGE

WHERE

STUDENT.sID = APPLY.sID

AND APPLY.cName = COLLEGE.COLLEGEName

AND STUDENT.sizeHS > 1000

AND APPLY.major = 'CS'

AND COLLEGE.enrollment > 20000

AND APPLY.decision = 'N'

ORDER BY STUDENT.sName , STUDENT.sID;

-- By natural join

SELECT

STUDENT.sName, STUDENT.GPA

FROM

STUDENT

NATURAL JOIN APPLY

INNER JOIN COLLEGE ON APPLY.cName = COLLEGE.COLLEGEName

WHERE

STUDENT.sizeHS > 1000

AND APPLY.major = 'CS'

AND COLLEGE.enrollment > 20000

AND APPLY.decision = 'N'

ORDER BY sName , sID;

-- By inner join

SELECT

STUDENT.sName, STUDENT.GPA

FROM

```
STUDENT
INNER JOIN APPLY ON STUDENT.SID = APPLY.SID
INNER JOIN COLLEGE ON APPLY.cName = COLLEGE.COLLEGEName
WHERE
STUDENT.sizeHS > 1000
    AND APPLY.major = 'CS'
    AND COLLEGE.enrollment > 20000
    AND APPLY.decision = 'N'
ORDER BY STUDENT.sName , STUDENT.SID;
```

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