

## > Joins

1. Combine information FROM student and result table using cross join or Cartesian product.

**SELECT** \*

**FROM** Student

**CROSS JOIN Result** 

OR

**SELECT\*** 

**FROM** Student, Result

2. Display Rno, Name, Branch and SPI of CE branch's student only.

**SELECT** 

Student.Rno.

Student.Name.

Student.Branch,

Result.SPI

**FROM** Student

LEFT OUTER JOIN Result

ON Student.Rno = Result.Rno

WHERE Student.Branch='CE'

3. Display Rno, Name, Branch and SPI of other than EC branch's student only.

**SELECT** 

Student Rno,

Student. Name.

Student.Branch,

Result.SPI

FROM Student

LEFT OUTER JOIN Result

ON Student.Rno = Result.Rno

WHERE Student.Branch <> 'EC

4. Display the average result of each branch.

**SELECT** 

Student.Branch,

AVG(Result.SPI) As Avg\_Spi

**FROM** Student

**INNER JOIN Result** 

ON Student.Rno = Result.Rno

**GROUP BY Student.Branch** 

5. Display the average result of each branch and sort them in ascending ORDER BY SPI.

**SELECT** 

Student.Branch,

AVG(Result.SPI) As Avg\_Spi



FROM Student INNER JOIN Result ON Student.Rno = Result.Rno GROUP BY Student.Branch

ORDER BY AVG(Result.SPI)

6. Display average result of CE and ME branch.

**SELECT** 

Student.Branch,

AVG(Result.SPI) As Avg\_Spi

**FROM** Student

**INNER JOIN Result** 

ON Student.Rno = Result.Rno

AND (Student.Branch IN ('CE','ME'))

**GROUP BY Student.Branch** 

7. Perform the left outer join on Student and Result tables.

**SELECT** 

Student.Rno.

Student.Name,

Student.Branch,

Result.SPI

**FROM Student** 

LEFT OUTER JOIN Result

ON Student.Rno = Result.Rno

8. Perform the right outer join on Student and Result tables.

**SELECT** 

Student.Rno,

Student.Name,

Student.Branch,

Result.SPI =

FROM Student

RIGHT OUTER JOIN Result

ON Student.Rno = Result.Rno

9. Perform the full outer join on Student and Result tables.

**SELECT** 

Student.Rno,

Student.Name,

Student.Branch,

Result.SPI

**FROM** Student

FULL OUTER JOIN Result



ON Student.Rno = Result.Rno

10. Retrieve the names of employees along with their manager's name FROM the Employee table.

**SELECT** 

E.Name As EmployeeName, M.Name As ManagerName

**FROM** Employee E

LEFT OUTER JOIN Employee M

ON E.ManagerNo = M.EmployeeNo

1. Display all the villages of Rajkot city.

FROM V. VillageName

**FROM** City C

FULL OUTER JOIN VIllage V

**ON** C.CityID = V.CityID

WHERE C.CityName='Rajkot'

2. Display city along with their villages & pin code.

**SELECT** 

C.CityName,

C.Pincode,

V.VillageName

FROM City C

RIGHT OUTER JOIN Village V

ON C.CityID = V.CityID

3. Display the city having more than one village.

**SELECT** 

City.CityName,

COUNT(Village.CityID) AS NoOfVillages

**FROM** City

LEFT OUTER JOIN Village

ON City.CityID=Village.CityID

**GROUP BY City.CityName** 

HAVING COUNT(Village.CityID)>1

4. Display the city having no village.

**SELECT** 

City.CityName

**FROM** City

LEFT OUTER JOIN Village

ON City.CityID=Village.CityID



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GROUP BY City.CityName
HAVING COUNT(Village.CityID) = 0

5. Count the total number of villages in each city.
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SELECT
City.CityName,
COUNT(Village.VillageID) As TotalVillages
FROM City
LEFT OUTER JOIN Village
ON City.CityID=Village.CityID
GROUP BY City.CityName

6. Count the number of cities having more than one village.

## Darshan UNIVERSITY

योग: कर्मसु कौशलम्