

```
use demo
CREATE DATABASE DEMO
```

```
CREATE TABLE STUDENT_INFO
(Rno INT,
Name VARCHAR(10),
Branch VARCHAR(10),
Semester INT,
CPI DECIMAL(4,2)
)
```

```
INSERT INTO STUDENT_INFO
VALUES
(101, 'Ramesh', 'CE', 3, 9),
(102, 'Mahesh', 'EC', 3, 8),
(103, 'Suresh', 'ME', 4, 7),
(104, 'Amit', 'EE', 4, 8),
(105, 'Anita', 'CE', 4, 8),
(106, 'Reeta', 'ME', 3, 7),
(107, 'Rohit', 'EE', 4, 9),
(108, 'Chetan', 'CE', 3, 8),
(109, 'Rakesh', 'CE', 4, 9)
```

```
SELECT * FROM STUDENT_INFO
```

```
--MAX CPI
SELECT MAX(CPI) FROM STUDENT_INFO
```

```
--BRANCH WISE HIGHEST SPI
SELECT MAX(CPI)
FROM STUDENT_INFO
GROUP BY Branch
```

```
SELECT BRANCH, MAX(CPI) AS HIGHEST_CPI
FROM STUDENT_INFO
GROUP BY Branch
```

```
--BRANCH WISE LOWEST CPI
SELECT BRANCH, MIN(CPI) AS LOWEST_CPI
FROM STUDENT_INFO
GROUP BY Branch
```

```
--BRANCH WISE AVERAGE CPI
SELECT BRANCH, AVG(CPI) AS AVERAGE_CPI
FROM STUDENT_INFO
GROUP BY Branch
```

```
--SEM WISE MAX AND MIN CPI
```

```

SELECT Semester ,MAX(CPI) AS HIGHEST , MIN(CPI) AS LOWEST
FROM STUDENT_INFO
GROUP BY Semester

```

```

-- AVG CPI OF CE BRANCH
SELECT BRANCH,AVG(CPI) AS AVG_CPI
FROM STUDENT_INFO
GROUP BY Branch
having BRANCH='CE'

```

```

--or
select avg(cpi) as avg_cpi_CE
from Student_Info
where branch='ce'

```

```

--avg CPI of 3rd sem students
SELECT SEMESTER, AVG(CPI) AS AVG_CPI
FROM STUDENT_INFO
GROUP BY SEMESTER
HAVING SEMESTER=3

```

```

--or
SELECT AVG(CPI) AS AVG_CPI_of_3rdsem
FROM STUDENT_INFO
where Semester=3

```

```

--Find out All the Branches with maximum CPI,
--whose maximum CPI is more than 8.
SELECT BRANCH,MAX(CPI) AS [MAX_CPI]
FROM STUDENT_INFO
GROUP BY BRANCH
HAVING MAX(CPI)>8

```

```

--BRANCH WISE, SEM WISE MIN CPI
SELECT SEMESTER,BRANCH, MIN(CPI)AS MIN_CPI
FROM STUDENT_INFO
GROUP BY SEMESTER,BRANCH

```

```

SELECT BRANCH,SEMESTER, MIN(CPI)AS MIN_CPI
FROM STUDENT_INFO
GROUP BY BRANCH,SEMESTER

```

```

select * from STUDENT_INFO

```

```

select cpi from STUDENT_INFO
--ORDER BY
SELECT CPI FROM STUDENT_INFO ORDER BY CPI

```

```

SELECT CPI FROM STUDENT_INFO ORDER BY CPI ASC

```

```

--DESCENDING
SELECT CPI FROM STUDENT_INFO ORDER BY CPI DESC

```

```
--SELECT BRANCH WISE MAXIMUM CPI IN ASCENDING ORDER
SELECT BRANCH,MAX(CPI) AS BRANCH_MAX_CPI
FROM STUDENT_INFO
GROUP BY BRANCH
ORDER BY MAX(CPI)
```

```
--SELECT BRANCH WISE MAXIMUM CPI IN DESCENDING ORDER
SELECT BRANCH,MAX(CPI) BRANCH_MAX_CPI_
FROM STUDENT_INFO
GROUP BY BRANCH
ORDER BY MAX(CPI) DESC
```

```
--DISPLAY SEM WISE AVG SPI IN DESCENDING ORDER
SELECT SEMESTER,AVG(CPI) AS AVERAGE
FROM STUDENT_INFO
GROUP BY Semester
ORDER BY AVG(CPI) DESC
```

```
--Find out semester wise total students &
--arrange them in order with their count.
Select Semester, Count(Rno) AS [Total]
From STUDENT_INFO
Group By Semester
Order By Count(Rno)
```

```
--find Branch wise total students in descending order
SELECT Branch,COUNT(RNO) AS TOTAL
FROM STUDENT_INFO
GROUP BY BRANCH
ORDER BY COUNT(RNO) DESC
```

```
--Find out Branch wise & Semester wise
--CE branch's students in which
--minimum CPI is greater than 7.
--Do arrange the result in descending order to semester.
```

```
Select Semester,
MIN(CPI) AS [Min] From Student_info
Where Branch='CE'
Group By Semester
Having MIN(CPI) > 7
Order By Semester Desc
```

```
Select Branch, Semester, MIN(CPI) AS [Min]
From Student_info
Group By Branch, Semester
Having MIN(CPI) > 7 and Branch='CE'
Order By Semester Desc
```