### ---sum()

# Q.-Get marks in maths achieved by section A?

select sum(maths) as total\_maths\_marks from college\_data

where Section='a';

# Q.-total marks in (phys,che,maths) achieved by

#### each student?

select name, (physics+chemistry+maths) as total\_marks from college\_data;

#### ---min()

## Q.-which student got min in maths among boys?

select min(maths) as min\_maths from college\_data where gender='male';

---max()

# Q.-which student got max in maths & physics combined?

select max(maths+physics) as max\_marks\_combined from college\_data;

#### ---Count()

### Q.-Count total people in the table?

select count(gender) from college\_data;

select count(\*) from college\_data;

## Q.-count no. of people scored 61 in physics?

select count(\*) from college\_data where Physics=61;

## Q.-count how many section are there?

select count(distinct Section) from college\_data;

### ---group by clause

· -The "GROUP BY" clause in SQL is used to organize rows of data

- with similar values in one or more columns together.
- -It is often paired with aggregate functions to perform calculations on these grouped sets of data.
- · -Single Grouping
- Q.-Get the min in maths from boys students?

select max(maths) as Max\_Maths\_Male from college\_data

where gender = 'Male';

Q.-Get the max in maths from girls students?

select max(maths) as Max\_Maths\_Female from college\_data

where gender = 'Female';

- --I want to show both together--ie Max score in Maths by both the gender-- How?
- --For that we need Group By

Select Gender, Max (Maths) AS Max\_Maths from College\_Data Group By Gender;

Q.--Count no. of males and female students?

select gender,count(\*) AS Total\_Candidates from college\_data

Group By Gender;

## Q.--Get the max in maths from each class?

select class, Max (Maths) AS Max\_Maths from college\_data

Group By class

Order By Class DESC;

## Q.-Count the no. of students from each class?

select class,count(\*) AS
Total\_Student from college\_data
group by class;

## Q.-Get the max of Maths+Science for each class?

select class, max(maths+physics)
AS Maths\_Physics from
college\_data

Group By class

Order By Class DESC;

Q.-Get the average of Maths, Physics, Chemistry scores for each class?

Select Class, Avg((maths+physics+chemistry)/3) AS Avg\_Of\_All\_Subject from college\_data

Group By Class;

·-Multiple Grouping--

## Q.-Get the max in maths from each class & section?

select Class,Section,Max(Maths)
AS Max\_Maths FROM College\_Data
Group By Class,Section
Order by Class,Section;