

Day 2 : SQL Resources

Relational Database Management System (RDBMS)

Language: Structure Query Language (SQL)

Data_set—>

[College Data.csv](#)

---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.**
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- **-It is often paired with aggregate functions to perform calculations on these grouped sets of data.**
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- **-Single Grouping**
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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;
