

## Subquery:-

- ✓ SELECT col1, (col2), ..., colm
- ✓ FROM table
- ✓ WHERE <condition>
- GROUP BY
- HAVING
- ORDER BY

Students

ID	Name	Class	Marks	Attendance
derived column				
<u>Class - XI</u>		<u>Class - XII</u>	...	

SELECT

✓ (SELECT SUM(Marks) <sup>From Students</sup> WHERE Class = 'XI'),

✓ (SELECT SUM(Marks) <sup>From Students</sup> WHERE Class = 'XII')

SELECT second highest salary

```
SELECT * FROM Employee
ORDER BY Salary DESC
```

## LIMIT 1

## OFFSET 1

Employee

[illegible]

מטרת 1

SELECT ID, Name, Dept., MAX(Salary) as Salary

FROM Employee

WHERE salary < (SELECT MAX(salary) FROM Employee)

150000

## COMMON TABLE EXPRESSION (CTE)

WITH my\_table AS

(

Query on the bigger table  
to produce derived table.

)

SELECT x, y, z FROM my\_table

WHERE x > ... AND y < ...

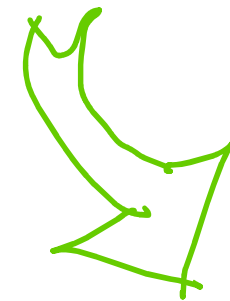
GROUP BY

HAVING

ORDER BY

Bigtable

			...	



Temporary

Derived table (Temp table)


↓ Query

Result

# UNION

Girls

ID	Name

Boys

ID	Name



Students

ID	Name	Gender

'M'  
'F'

SELECT \* FROM Girls

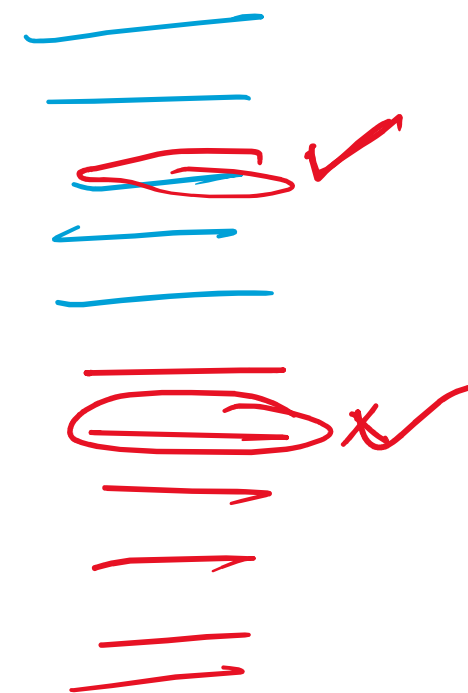
UNION ALL

SELECT \* FROM Boys

+1


+2


month	Cost
Jan	400
...	...
...	...



SELECT ID, Name, 'F' AS Gender

FROM Girls

UNION ALL

SELECT ID, Name, 'M' AS Gender

FROM Boys