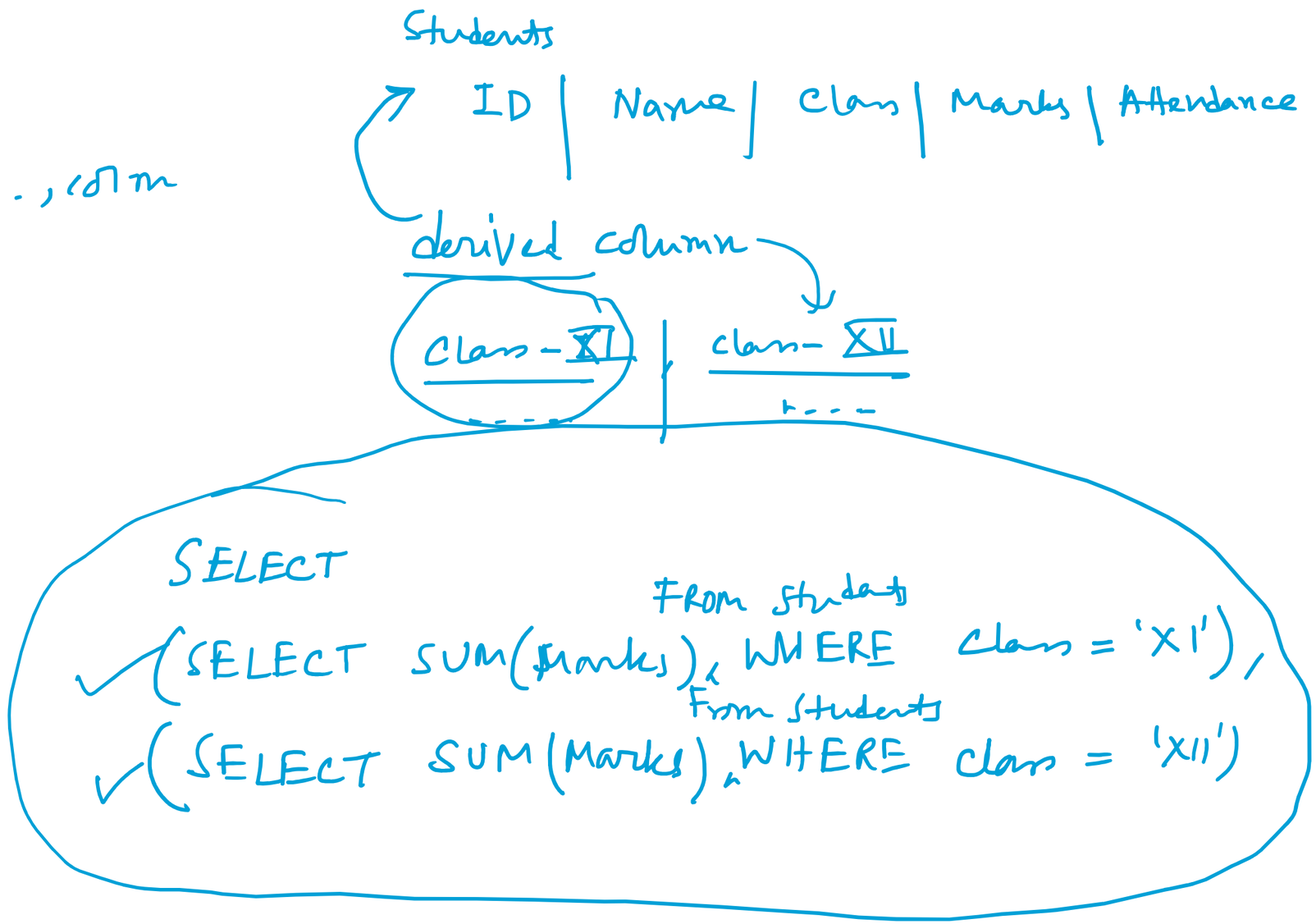
Subquery:-

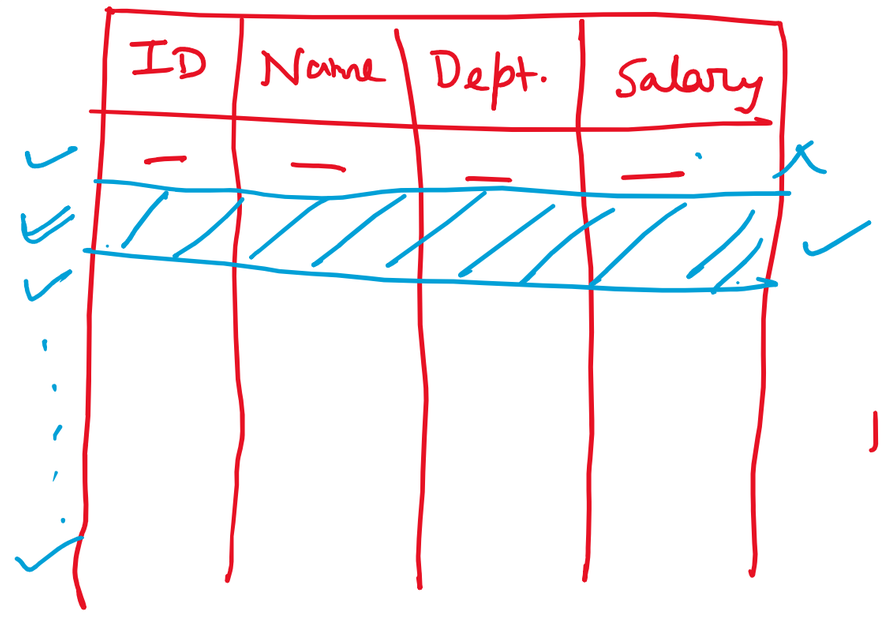
- SELECT col1 (col2) ..., colm
- FROM table
- WHERE <condition>
  GROUP BY
  HAVING
  ORDER BY



SELECT second highest salary

```
SELECT * FROM Employee
ORDER BY Salary DESC
LIMIT 1
OFFSET 1
```

Employee

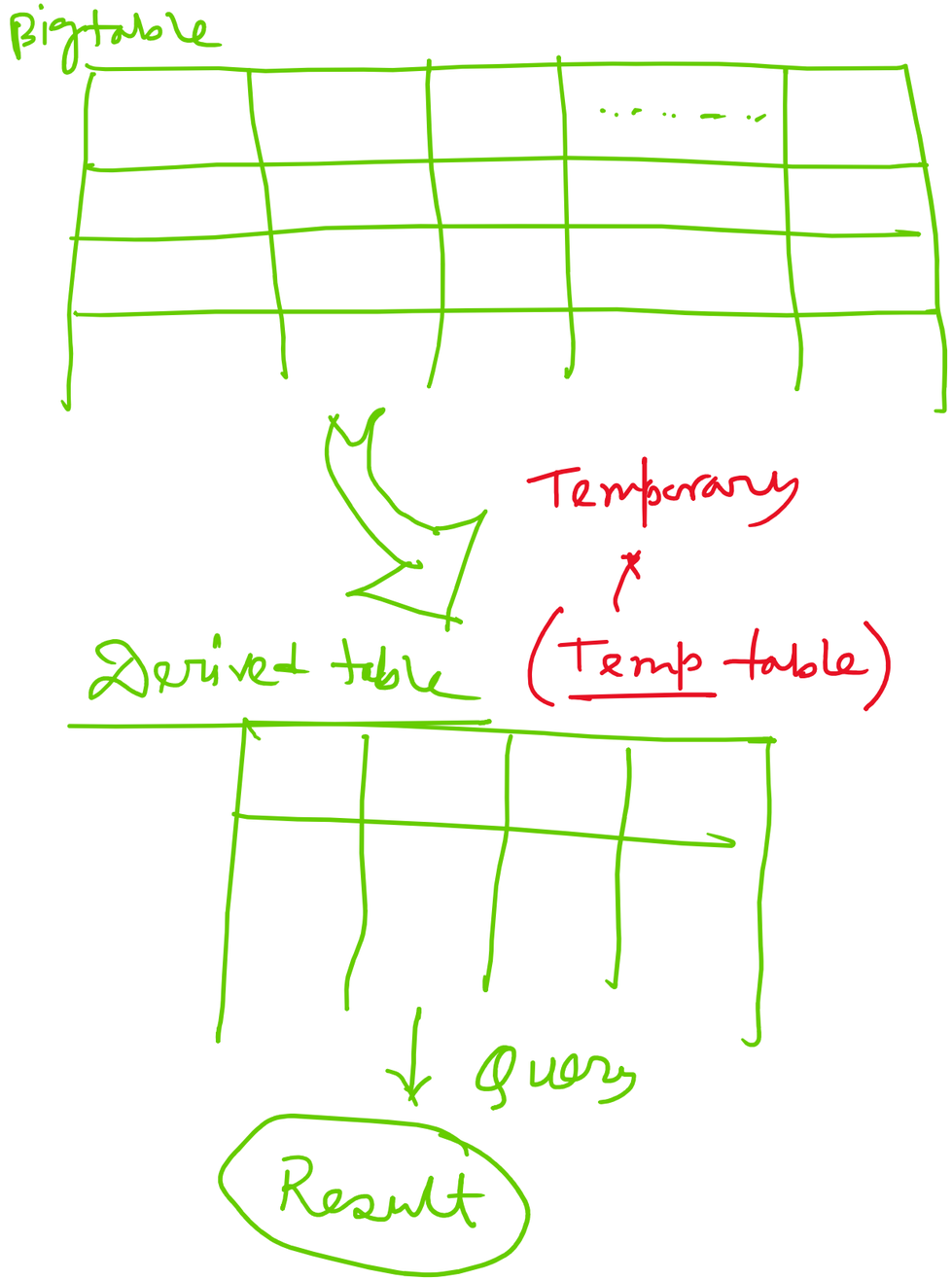



```
SELECT ID, Name, Dept., MAX(Salary) as Salary
FROM Employee
WHERE Salary < ( SELECT MAX(Salary) FROM Employee)
```

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
```



UNION

Girls

ID	Name

Boys

ID	Name

→

Students

ID	Name	Gender

X

'M'
'F'

SELECT * FROM Girls
UNION ALL
SELECT * FROM Boys

t1

t2

month	Cnt
Jan	400

SELECT ID, Name, 'F' AS Gender
FROM Girls
UNION ALL
SELECT ID, Name, 'M' AS Gender
FROM Boys