```
It is used to combine the result-set of two or more SELECT statements.
Gives UNIQUE records.
To use it:
-> Every SELECT should have same no. of columns.
-> columns must have similar data types.
-> columns in every SELECT should be in same order.
SYNTAX:
        SELECT column(s) FROM tableA
        UNION
        SELECT column(s) FROM tableB
and
        SELECT column(s) FROM tableA
        UNION ALL
        SELECT column(s) FROM tableB
- the last query will give duplicates also.
   -> A subquery or inner query or a nested query is a query within another SQL query.
-> It involves 2 select statements.
SELECT column(s)
FROM table_name
WHERE col_name operator
(subquery);
*/
SELECT * FROM student;
/*
Example:
    Get names of all students who scored more than class average.
    Step 1: Find the avg of class
    Step 2: Find the names of students with marks > avg
SELECT AVG(marks) FROM student; -- 87.667
SELECT name
FROM student
WHERE marks > 87.667;
-- But if more students join later then this will change.
-- so for that reason we can use sub queries.
SELECT name, marks
FROM student
WHERE marks > (
    SELECT AVG(marks) FROM student
-- the above sub query will also give us the same result.
-- this subquery is dynamic SQL query.
-- Qs: Find the name of all students with even roll nubmers.
-- Step 1: Find the even roll numbers.
-- Step 2: Find the names of students will even roll no.
SELECT rollNo
FROM student
WHERE rollNo \% 2 = 0;
SELECT name
FROM student
WHERE rollNo IN(102, 104, 106);
/*
Result:
bhumika
dhruv
farah
*/
-- Now using sub query
SELECT name
FROM student
WHERE rollNo IN (
    SELECT rollNo
    FROM student
    WHERE rollNo % 2 = 0
);
-- this will also give us the same result
/*
Result:
bhumika
dhruv
farah
*/
/*
Example using FROM:
Qs: Find the max marks from the students of Delhi.
Step 1: Find the students of Delhi.
Step 2: Find the max marks using the sublist in step 1
*/
SELECT *
FROM student
WHERE city = "delhi";
SELECT MAX(marks)
FROM (
    SELECT *
    FROM student
    WHERE city = "delhi"
) AS temp;
/**
Result:
96
-- as Temp is like a temporary table which we get from the sub query
-- and if we are using FROM then we have to write this kind of aliases.
Using sub-queries inside SELECT
SELECT (SELECT MAX(marks) FROM student), name FROM student;
Result:
96 anil
        bhumika
96
96
        chetan
        dhruv
96
        emanuel
96
96
       farah
*/
 ----- VIEWS ------
-> A view is a virtual table based on the result-set of an SQL statement.
NOTE:
    A view always show us up-to-date data.
    The database engine recreates the view each time a user make a
    query.
*/
CREATE VIEW view1 AS
SELECT rollNo, name
FROM student;
/*
After creating a view we can make multiple queries in this view
as like a table.
*/
SELECT name FROM view1;
/*
Result:
anil
bhumika
chetan
dhruv
emanuel
farah
*/
```