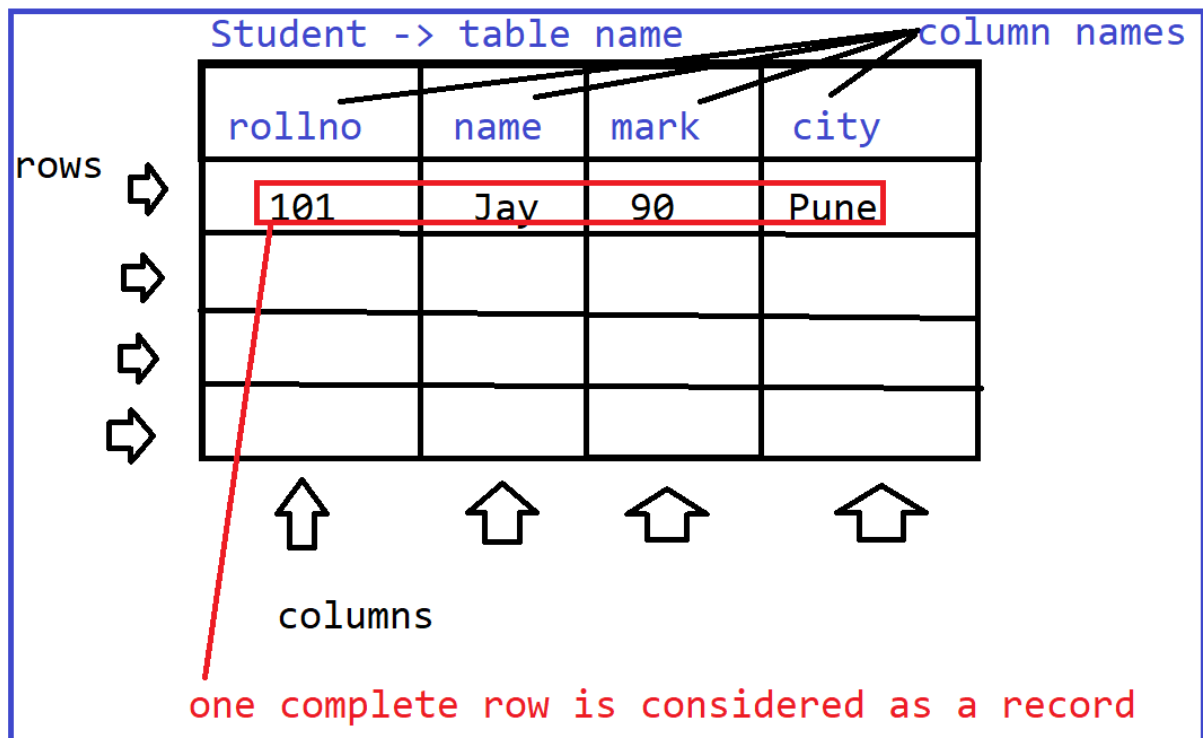


## SQL Day 4

### Table Structure



### > Properties of a table

- 1) Every Table must have name
- 2) Every Table must have at least one column

### > Properties of Column

- 1) Every column must have name
- 2) Every cloumn must have data type
- 3) Column has constraint(optional)

Q. How to create a table?

To create a table we have 3 options

- 1) Creating table without constraint
- 2) Creating table with constraint
- 3) Creating table from existing table

Syntax of Create table

Create table table\_name

(

First\_column\_name data\_type constraint,

second\_column\_name data\_type constraint,

Third\_column\_name data\_type constraint,

N\_th\_column\_name data\_type constraint

);

Important points while creating a table

- 1) while creating table constraint part is optional
- 2) Table must have at least one column
- 3) User defined name (table name or column name should not have blank space)
- 5) one column is separated from another column using comma operator
- 6) At the end of query you should use semi colon
- 7) Number of opening brackets must be equal to number of closing

Consider following table structure.

Emp\_details

emp_id	name	salary	City

Table name

Column name

Row/Records

Create table Query

```
Create table Emp_details (  
    emp_id    number,  
    name      varchar(200),  
    salary    number,  
    city      varchar2(200));
```

Q. State which of the following create table statement are valid or invalid

1) create table Emp\_details(varchar emp\_name);

Ans: Invalid , column definition is wrong

2) create table Emp details(emp\_name char);

Ans : Invalid, in the name of table blank space.

3) create table Emp\_details(emp\_name char);

Ans : valid, for char data type size is not mandatory

4) create table emp\_details(emp\_name varchar(40005));

Ans: Invalid, varchar size is out of range

5) create table emp\_details(emp\_id number emp\_name varchar(200));

Ans: Invalid, columns are not separated using comma

6) create table emp\_details(emp\_id number, emp\_name varchar(0));

Ans: Invalid, size of varchar is out of range

7) create table emp\_details(emp\_id number, emp\_name varchar(-100));

Ans: Invalid, size of varchar is out of range

8) create table emp\_details(emp\_id );

Ans: Invalid, column data type is missing

8) create table emp\_details();

Ans: Invalid, table must have at least one column

9)create table emp\_details(emp\_name varchar(500);

Ans: Invalid, number of opening and closing brackets are not equal

10) table create emp\_details(emp\_name varchar(200));

Ans: Invalid, syntax is not in valid format

11) create table emp\_details(emp\_id number(40));

Ans: Invalid, number data type range is invalid

12) create table emp\_details(emp\_id number(-10));

Ans: invalid, number data type range is invalid

13) create table emp\_details emp\_id number, name varchar2(200));

Ans: Invalid, opening bracket is missing

14) create emp\_details table( emp\_id number);

Ans: Invalid, sequence is invalid

15) create table emp\_details(today\_date date);

Ans: valid

16) create table emp\_details(emp\_id number; emp\_name varchar(200));

Ans: invalid, column name should be seperated by comma