1. What is database?

Data base is a organized collection of data. It is the collections of scheme, tables, queries, reports, views and other projects.

1. What is row?

A **row** is a series of data banks laid out in a [horizontal](http://www.computerhope.com/jargon/h/horizont.htm) fashion in a table or spreadsheet .a row is a horizontal series of cells in a chart,table or spreadsheet.

1. What is column?

A column is a series of data banks laid out in a vertical fashion in a table or spreadsheet. A **column** is a [vertical](http://www.computerhope.com/jargon/v/vertical.htm) series of cells in a chart, table, or spreadsheet.

1. What is table?

Table contains of rows or columns or fields. Database table can be thought of as consisting rows or columns .

1. Example for foreign key?

**CREATE** **TABLE** **table\_name** (

id INTEGER **PRIMARY** **KEY**,

col2 CHARACTER VARYING(20),

col3 INTEGER,

...

**FOREIGN** **KEY**(col3)

**REFERENCES** other\_table(key\_col) **ON** **DELETE** **CASCADE**,

... )

1. Example for primary key?

CREATE TABLE Persons  
(  
P\_Id int NOT NULL,  
LastName varchar(255) NOT NULL,  
FirstName varchar(255),  
PRIMARY KEY (P\_Id)  
)

1. Example for max,sum,avg?

The MAX() function returns the largest value of the selected column.

SELECT MAX(row\_name) FROM table\_name;

The SUM() function returns the total sum of a numeric column.

SELECT SUM(row\_name) FROM table\_name;

The MIN() function returns the smallest value of the selected column.

SELECT MIN(row\_name) FROM table\_name;

1. Example for left inner join

Left inner join displays all the records for the LEFT table

Select \*from country

Left join table State

on table Country .Country id=tablestate .Countryid

1. Example for right inner join

Right inner join displays data from the right table

Select \*from country

right join table State

on table Country .Country id=tablestate .Countryid

1. Example for inner join

Inner join will shows the data which have matching enter on both the table

Select\* from table country

Inner join table state

on table Country .Country id= table state .Country id

1. Example for group by

SELECT column\_name, aggregate\_function(column\_name)  
FROM table\_name  
WHERE column\_name operator value  
GROUP BY column\_name;

1. Example for having by

SELECT column\_name, aggregate\_function(column\_name)  
 FROM table\_name  
 WHERE column\_name operator value  
 GROUP BY column\_name  
 HAVING aggregate\_function(column\_name) operator value;

1. Finding second highest salary for a row table

SELECT MAX (Salary) as 'Salary' from Employees where Salary NOT IN (SELECT TOP 1 (Salary) from Employees ORDER BY Salary Desc);

1. Example for where condition?

SELECT \* FROM Employeer WHERE balances LIKE 's%';