1.What is database?

Which store the data/manages the data/retrives the informatiom.

2.what is table?

Tables are organized into rows and columns; and each table must have a name.

3.what is row/columns?

tuples/attributes.

4.example for inner join?

The INNER JOIN keyword selects all rows from both tables as long as there is a match between the columns in both tables.

syntax:

SELECT column\_name(s)  
FROM table1  
INNER JOIN table2  
ON table1.column\_name=table2.column\_name;

example:

SELECT Customers CustomerName, Orders.OrderID  
FROM Customers  
INNER JOIN Orders  
ON Customers.CustomerID=Orders.CustomerID  
ORDER BY Customers.CustomerName;

5.example for left outer join?

The LEFT JOIN keyword returns all rows from the left table (table1), with the matching rows in the right table (table2). The result is NULL in the right side when there is no match.

syntax:

SELECT column\_name(s)  
FROM table1  
LEFT JOIN table2  
ON table1.column\_name=table2.column\_name;

example:

SELECT Customers.CustomerName, Orders.OrderID  
FROM Customers  
LEFT JOIN Orders  
ON Customers.CustomerID=Orders.CustomerID  
ORDER BY Customers.CustomerName;

6.example for right outer join?

The RIGHT JOIN keyword returns all rows from the right table (table2), with the matching rows in the left table (table1). The result is NULL in the left side when there is no match.

syntax:

SELECT column\_name(s)  
FROM table1  
RIGHT OUTER JOIN table2  
ON table1.column\_name=table2.column\_name;

Example:

SELECT Orders.OrderID, Employees.FirstName  
FROM Orders  
RIGHT JOIN Employees  
ON Orders.EmployeeID=Employees.EmployeeID  
ORDER BY Orders.OrderID;

Create tables:

TABLE FOR EMPLOYEE MANAGEMENT

CREATE TABLE Employee  
(  
Employee ID int,  
LastName varchar(255),  
FirstName varchar(255),  
Job varchar(255),  
Salary int  
);

INSERT INTO Employee (Employee ID, LastName, FirstName, Job, Salary)  
VALUES ('1432','Kancharla','Akhila','AD\_PRES','24000$');

INSERT INTO Employee   
VALUES ('1437','Nukala','Keerthi','AD\_VP','24000$');

INSERT INTO Employee   
VALUES ('1442','Narayana','Shruthi','IT\_PROG','17000$');

INSERT INTO Employee   
VALUES ('1346','Ginjupalli','Sahana','IT\_PROG','20000$');

INSERT INTO Employee   
VALUES ('1434','Garlapati','Usha','FI\_MNGR','12000$');

INSERT INTO Employee   
VALUES ('1423','Gaddam','Namratha','FI\_ACCOUNT','10000$');

TABLE FOR LIBRARY MANAGEMENT SYSTEM:

CREATE TABLE Customer  
(  
Customer\_ID int,  
Customer Name varchar(255),  
Customer\_Email varchar(255),  
Customer \_Address varchar(255),  
  
);

 INSERT INTO Customer (Customer\_ID,CustomerName,Customer\_Email,Customer\_Address)

VALUES( '1432','KancharlaAkhila','KNAK','Dallas');

 INSERT INTO Customer (Customer\_ID,CustomerName,Customer\_Email,Customer\_Address)

VALUES('1437','NukalaKeerthi','NUKE','SanAntonio');

 INSERT INTO Customer (Customer\_ID,CustomerName,Customer\_Email,Customer\_Address)

VALUES('1442','NarayanaShruthi','NASH','NewJersy');

 INSERT INTO Customer (Customer\_ID,CustomerName,Customer\_Email,Customer\_Address)

VALUES('1346','GinjupalliSahana','GISA',California');

 INSERT INTO Customer (Customer\_ID,CustomerName,Customer\_Email,Customer\_Address)

VALUES('1434','GarlapatiUsha','GAUS','Newyork');

INSERT INTO Customer (Customer\_ID,CustomerName,Customer\_Email,Customer\_Address)

VALUES('1423','GaddamNamratha','GANA','Austin');

CREATE TABLE Books  
(  
Book\_ID int,  
Book Name varchar(255),  
BookAuthor varchar (255),  
Book Edition int,  
  
);

CREATE TABLE Products  
(  
Product\_ID int,  
Product Name varchar(255),  
Supplier\_ID int ,  
Price int,  
  
);

CREATE TABLE Orders  
(  
Order\_ID int,  
Customer\_ID int,  
Employee\_ID int ,  
Shipper\_ID int,

);

CREATE TABLE Shippers  
(  
Shipper\_ID int,

ShipperName varchar(255),

Phone int,

);

CREATE TABLE Suppliers  
(

Supplier \_ID int,  
Supplier Name varchar(255),  
ContactName varchar(255),

Country varchar(255),  
  
);

PRIMARY KEY:

CREATE TABLE Employee  
(  
Employee \_Id int NOT NULL,  
LastName varchar(255) NOT NULL,  
FirstName varchar(255),  
Job varchar(255),  
Salary int  
PRIMARY KEY (Employee \_Id)  
)

FOREIGN KEY:

CREATE TABLE Orders  
(  
O\_Id int NOT NULL,  
OrderNo int NOT NULL,  
P\_Id int,  
PRIMARY KEY (O\_Id),  
FOREIGN KEY (Employee \_Id) REFERENCES Employee (Employee \_Id)  
)

GROUP BY:

SELECT Shippers.ShipperName,COUNT(Orders.OrderID) AS NumberOfOrders FROM Orders  
LEFT JOIN Shippers  
ON Orders.ShipperID=Shippers.ShipperID  
GROUP BY ShipperName;

HAVING:

SELECT Employees.LastName, COUNT(Orders. OrderID) AS NumberOfOrders FROM (Orders  
INNER JOIN Employees  
ON Orders.EmployeeID=Employees.EmployeeID)  
GROUP BY LastName  
HAVING COUNT(Orders.OrderID) > 10;

WHERE:

SELECT \* FROM Customers

WHERE Customer\_ID='1437';

MAX:

SELECT MAX(Salary) FROM Employee;

SUM:

SELECT SUM(Price) FROM Produts;

AVG:

SELECT AVG(Price) FROM Produts;