## Project Database Design

## Left Join:

```
Left JOIN:
   The left join allows you to query data from twp or more tables. Left Join will fetch all the records from the left table
   and matching records from another table. If the value is not present for the particular record in right side table then
  it will make result as "NULL"
   Syntax : select Select_Lst from table1
          left join table2 on Join_Condition
select * from customers;
select * from orders;
/* Customer can have 0 orders and more than 0 orders */
select a.customernumber, a.customername, b.ordernumber, b.status
from customers a
left join orders b on
a.customerNumber = b.customerNumber;
 select a.customernumber, a.customername, b.ordernumber, b.status
 from customers a
 left join orders b on
 a.customernumber = b.customernumber
 where ordernumber is null;
 select a.customernumber, a.customername, b.ordernumber, b.status
 from customers a
 left join orders b on
 a.customernumber = b.customernumber
 where ordernumber is null;
```

```
/* Right Join */

/*

It will retrieve all the records from the right side table and matching recoreds from the left side table. If the values are not present in the left side table then it return "Null"

Syntax:

select Select_list from table1

right join table2 on Join_Condition;

*/

select a.customernumber,a.customername,b.ordernumber,b.status

from customers a

right join orders b on

a.customernumber = b.customernumber;
```

## **Advanced: Stored Procedures**

Introduction to Database Objects:

- 1. tables : Data storage
- 2. stored procedures
- 3. views
- 4. triggers
- 5. indexes
- 6. Full-Text search
- 7. Functions

Use of other objects makes the data secure, it means all these objects will provide the security for the data in the tables.

```
select customerName,phone,city,state,postalcode,country from customers
order by customerName;
```

If you want to save this query on the database server for future reference we do use stored procedures.

To create the procedure we can use "Create Procedure".

```
/* Create the Procedure */

DELIMITER $$
create procedure getCustomersData()
begin
select customerName,phone,city,state,postalcode,country from customers
order by customerName;
end$$

/* Call the procedure */
call getCustomersData()
```

Procedure: Basically pre-compiled block of code and anytime when we call it just execute the query.

Query or Statement : Statement or Query everytime compile and everytime that will be executed.