

Lab Sheet-1

- i. Write PostgreSQL commands to create following tables along with the given constraints and write down appropriate query for the questions given below.

Project_Master-Description: Used to store Project information

Field	Type	Constraints
Proj_SNO	Char(10)	Primary key
Proj_Name	Varchar(10)	Not null
Location	Varchar(20)	
Domain	Varchar(20)	
Duration	Integer	
Certifications_Req	Char(10)	

Domain_Master- Description: Used to store Domain of Knowledge information

Field	Type	Constraints
Domain_no	Char(10)	Primary key
Description	Varchar(20)	Not null
Scale_Expert	Int	
Training_Need	Char(5)	Not null
Budget	Int	Not null, can not be 0

Client_Master Description: Used to store Clients of the Company

Field	Data Type	Constraints
Client_SNO	Char(10)	Primary key
Client_Name	Varchar(20)	
Address1	Varchar(20)	Not null
Address2	Varchar(20)	
Pin code	Int	
State	Varchar(20)	
Tgt_to_get	Int	Not null, cannot be 0
Remarks	Varchar(20)	Not null

Proj_Final : Description: Used to store Projects we have Completed(Logically).

Field	Data Type	Constraints
Order_no	Integer	Primary Key
Order_date	Date	
Proj_SNO	Char(10)	Foreign Key references Proj_Sno of Proj_Master table
Billing_Done	Char(2)	
Final_Release_date	Date	Cannot be less than Start_date
Proj_status	Varchar(20)	Values(In Process, Released, Escalation, Support)

1. Add column 'Skill_Set' with data type varchar to the Proj_Master table.
2. Add a column 'SME_Req' to the **Domain_Master** table (Only takes values 'Y' or 'N')
3. Add a column **Client_no** in **Proj_Master** table with proper referential integrity.(references **client_no** of **client_master** table)
4. Add "**not null**" constraint to **Client_Name** column of **client_master** table.
5. Add Billing_price column in **Project_Final** table.
6. Add 'Not null, cannot be 0' constraint to Scale_Expert column in **Domain_Master** table.
7. Add '**Resource_Available**' column with data type **smallint** and **not null** constraint in Project_Master table.
8. Rename the **Project_SNO** column of **Proj_Final** table to **Project_Number**.
9. Delete the column address2 from **client_master** table.
10. Delete the column Location from **Project_master** table.