

# Experiment 3

**TITLE: DDL (Data Definition Language) commands with Data Constraints**

**Objective:** To understand the concept of data constraints that is enforced on data being stored in the table. Focus on Primary Key and the Foreign Key

**Create the tables described below:**

**Table name: CLIENT\_MASTER\_1**

**Description:** Used to store client information.

Column name	Data type	Size	Constraints
CLIENTNO	Varchar	6	Primary key / first letter must start with 'C'
NAME	Varchar	20	Not Null
ADDRESS 1	Varchar	30	
ADDRESS 2	Varchar	30	
CITY	Varchar	15	
PINCODE	Integer	8	
STATE	Varchar	15	
BALDUE	Decimal	10,2	

```
2 • create table CLIENT_MASTER_1(
3   CLIENTNO varchar(6) primary key check(CLIENTNO like 'C%'),
4   NAME varchar(20) not null,
5   ADDRESS1 varchar(30),
6   ADDRESS2 varchar(30),
7   CITY varchar(15),
8   PINCODE int,
9   STATE varchar(15),
10  BALDUE decimal(10,2)
11 );
12 • desc CLIENT_MASTER_1;
```

<

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	CLIENTNO	varchar(6)	NO	PRI	NULL	
	NAME	varchar(20)	NO		NULL	
	ADDRESS1	varchar(30)	YES		NULL	
	ADDRESS2	varchar(30)	YES		NULL	
	CITY	varchar(15)	YES		NULL	
	PINCODE	int	YES		NULL	
	STATE	varchar(15)	YES		NULL	
	BALDUE	decimal(10,2)	YES		NULL	

**Table Name: PRODUCT\_MASTER\_1****Description:** Used to store product information

Column name	Data type	Size	Attributes
PRODUCTNO	Varchar	6	Primary Key/ first letter must start with 'P'
DESCRIPTION	Varchar	15	Not Null
PROFITPERCENT	Decimal	4,2	Not Null
UNIT MEASURE	Varchar	10	Not Null
QTYONHAND	Integer	8	Not Null
REORDERL VL	Integer	8	Not Null
SELLPRICE	Decimal	8,2	Not Null
COSTPRICE	Decimal	8,2	Not Null

```
14 • create table PRODUCT_MASTER_1(  
15     PRODUCTNO varchar(6) primary key check (PRODUCTNO like 'P%'),  
16     DESCRIPTION varchar(15) not null,  
17     PROFITPERCENT decimal(4,2) not null,  
18     UNITMEASURE varchar(10) not null,  
19     QTYONHAND int not null,  
20     REORDERL int not null,  
21     SELLPRICE decimal(8,2) not null,  
22     COSTPRICE decimal(8,2) not null  
23 );  
24 • desc PRODUCT_MASTER_1;
```

Field	Type	Null	Key	Default	Extra
PRODUCTNO	varchar(6)	NO	PRI	NULL	
DESCRIPTION	varchar(15)	NO		NULL	
PROFITPERCENT	decimal(4,2)	NO		NULL	
UNITMEASURE	varchar(10)	NO		NULL	
QTYONHAND	int	NO		NULL	
REORDERL	int	NO		NULL	
SELLPRICE	decimal(8,2)	NO		NULL	
COSTPRICE	decimal(8,2)	NO		NULL	

**Table Name:** SALESMAN\_MASTER\_1

**Description:** used to store salesman information working for the company.

Column name	data type	Size	Attributes
SALESMANNO	Varchar	6	Primary Key/ first letter must start with 'S'
SALESMANNAME	Varchar	20	Not Null
ADDRESS 1	Varchar	30	Not Null
ADDRESS 2	Varchar	30	
CITY	Varchar	20	
PINCODE	Integer	8	
STATE	Varchar	20	
SALAMT	Real	8,2	Not Null , Cannot be 0
TGTTTOGET	Decimal	6,2	Not Null , Cannot be 0
YTDSALES	Double	6,2	Not Null
REMARKS	Varchar	60	

```

26 • create table SALESMAN_MASTER_1(
27     SALESMANNO varchar(6) primary key check (SALESMANNO like 'S%'),
28     SALESMANNAME varchar(20) not null,
29     ADDRESS1 varchar(30) not null,
30     ADDRESS2 varchar(30),
31     CITY varchar(20),
32     PINCODE int(8),
33     STATE varchar(50),
34     SALAMT real(8,2) not null check (SALAMT <> 0),
35     TGTTTOGET decimal(6,2) not null check (TGTTTOGET <> 0),
36     YTDSALES double(6,2) not null,
37     REMARKS varchar(60)
38 );
39 • desc SALESMAN_MASTER_1;
40

```

Field	Type	Null	Key	Default	Extra
SALESMANNO	varchar(6)	NO	PRI	NULL	
SALESMANNAME	varchar(20)	NO		NULL	
ADDRESS1	varchar(30)	NO		NULL	
ADDRESS2	varchar(30)	YES		NULL	
CITY	varchar(20)	YES		NULL	
PINCODE	int	YES		NULL	
STATE	varchar(50)	YES		NULL	
SALAMT	double(8,2)	NO		NULL	
TGTTTOGET	decimal(6,2)	NO		NULL	
YTDSALES	double(6,2)	NO		NULL	
REMARKS	varchar(60)	YES		NULL	

[illegible]