**Date: 23rd January 2023**

# 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 |  |

**Query:**

use ravidb;

create table CLIENT\_MASTER\_1 (

CLIENTNO varchar(6) primary key,

NAME varchar(20) not null,

ADDRESS1 varchar(30),

ADDRESS2 varchar(30),

CITY varchar(15),

PINCODE int(8),

STATE varchar(15),

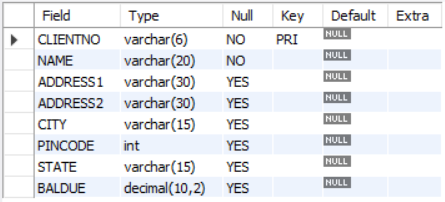
BALDUE decimal(10,2),

constraint c\_chk check(CLIENTNO like 'C%')

);

desc CLIENT\_MASTER\_1;

**Output:**

****

**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 |

**Query:**

create table PRODUCT\_MASTER\_1(

PRODUCTNO varchar(6) primary key,

DESCRIPTION varchar(15) not null,

PROFITPERCENT decimal(4,2) not null,

UNITMEASURE varchar(10) not null,

QTYONHAND int(8) not null,

REORDERLVL int(8) not null,

SELLPRICE decimal(8,2) not null,

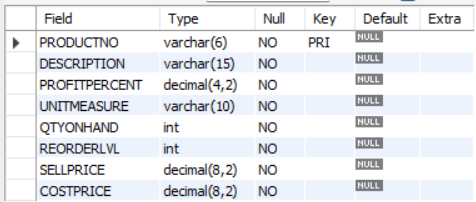
COSTPRICE decimal(8,2) not null,

constraint PN\_chk check(PRODUCTNO like 'P%')

);

desc PRODUCT\_MASTER\_1;

**Output:**



# 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 |
| TGTTOGET | Decimal | 6,2 | Not Null , Cannot be 0 |

|  |  |  |  |
| --- | --- | --- | --- |
| YTDSALES | Double | 6,2 | Not Null |
| REMARKS | Varchar | 60 |  |

**Query:**

create table SALESMAN\_MASTER\_1(

SALESMANNO varchar(6) primary key,

SALESMANNAME varchar(20) not null,

ADDRESS1 varchar(30) not null,

ADDRESS2 varchar(30),

CITY varchar(20),

PINCODE int(8),

STATE varchar(20),

SALAMT real(8,2) not null,

TGTTOGET decimal(6,2) not null,

YTDSALES double(6,2) not null,

REMARKS varchar(60),

constraint sno\_chk check(SALESMANNO like 'S%'),

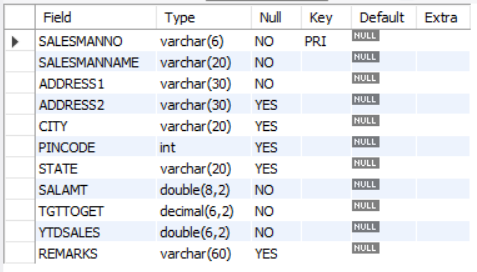
constraint samt\_chk check(SALAMT != 0),

constraint tgt\_chk check(TGTTOGET != 0)

);

desc SALESMAN\_MASTER\_1;

**Output:**



# Reinsert the data in these three tables based upon Lab 2.

**Query:**

insert into CLIENT\_MASTER\_1 values("C00001","Ivan bayross",null,null,"Mumbai",400054,"Maharashtra",15000);

insert into CLIENT\_MASTER\_1 values("C00002","Mamta muzumdar",null,null,"Madras",780001,"Tamil Nadu",0);

insert into CLIENT\_MASTER\_1 values("C00003","Chhaya bankar",null,null,"Mumbai",400057,"Maharashtra",5000);

insert into CLIENT\_MASTER\_1 values("C00004","Ashwini joshi",null,null,"Bangalore",560001,"Karnataka",0);

insert into CLIENT\_MASTER\_1 values("C00005","Hansel colaco",null,null,"Mumbai",400060,"Maharashtra",2000);

insert into CLIENT\_MASTER\_1 values("C00006","Deepak sharma",null,null,"Mangalore",560050,"Karnataka",0);

select \* from CLIENT\_MASTER\_1;

**Output:**

# 

**Query:**

# insert into PRODUCT\_MASTER\_1 values("P00001","T-Shirt",5,"Piece",200,50,350,250);

# insert into PRODUCT\_MASTER\_1 values("P0345","Shirts",6,"Piece",150,50,500,350);

# insert into PRODUCT\_MASTER\_1 values("P06734","Cotton jeans",5,"Piece",100,20,600,450);

# insert into PRODUCT\_MASTER\_1 values("P07865","Jeans",5,"Piece",100,20,750,500);

# insert into PRODUCT\_MASTER\_1 values("P07868","Trousers",2,"Piece",150,50,850,550);

# insert into PRODUCT\_MASTER\_1 values("P07885","Pull Overs",2.5,"Piece",80,30,700,450);

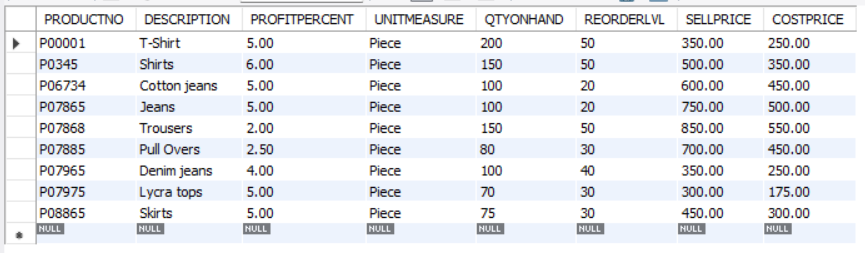
# insert into PRODUCT\_MASTER\_1 values("P07965","Denim jeans",4,"Piece",100,40,350,250);

# insert into PRODUCT\_MASTER\_1 values("P07975","Lycra tops",5,"Piece",70,30,300,175);

# insert into PRODUCT\_MASTER\_1 values("P08865","Skirts",5,"Piece",75,30,450,300);

# select \* from PRODUCT\_MASTER\_1;

**Output:**



**Query:**

insert into SALESMAN\_MASTER\_1 values("S00001","Aman","A/14","Worli","Mumbai",400002,"Maharashtra",3000,100,50,"Good");

insert into SALESMAN\_MASTER\_1 values("S00002","Omkar","65","Nariman","Mumbai",400001,"Maharashtra",3000,200,100,"Good");

insert into SALESMAN\_MASTER\_1 values("S00003","Raj","P-7","Bandra","Mumbai",400032,"Maharashtra",3000,200,100,"Good");

insert into SALESMAN\_MASTER\_1 values("S00004","Ashish","A/5","Juhu","Mumbai",400044,"Maharashtra",3500,200,150,"Good");

select \* from SALESMAN\_MASTER\_1;

**Output:**

