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**Sub : DBMS**

**Practical 2:** Study and implementation of different types of constraints.

Create the tables described below

**PRODUCT\_MASTER**

**SALESMAN\_MASTER**

Column Name	Datatype	Size	Constraints
Salesman No	Char	6	Primary Key
SalesmanName	Varchar2	20	Not Null
Address	Varchar2	30	Not Null
City	Varchar2	20	
PinCode	Number	6	
State	Varchar2	20	
SalAmt	Number	8,2	Not Null
PINCODE	UNIQUE		
CITY	CAN'T BE NAGPUR		

SELLPRICE	Between 10000 to 80000		
COSTPRICE	>1000		
Column Name	Datatype	Size	C
Product_No	Char	6	
Description	Varchar2	15	
ProfitPercent	Number	4,2	
UnitMeasure	Varchar2	10	
SellPrice	Number	8,2	
CostPrice	Number	8,2	

**Client Master**

Column Name	Datatype	Size	Constraints
Client No	Char	6	Primary Key
Name	Varchar2	20	Not Null
Address	Varchar2	100	
City	Varchar2	15	
Pincode	Number	6	
State	Varchar2	20	
Bal Due	Number	8,2	

**Sales\_Order**

Column Name	Datatype	Size	Default	Constraints
Order_No	Char	6		Primary Key
Client_No	Char	6		Foreign Key References Client_No of Client Master Table

<b>OrderDate</b>	Date			Not Null
<b>Salesman_No</b>	Char	6		Foreign Key References Salesman_No of Salesman_Master Table


## Code :


```
CREATE TABLE PRODUCT_MASTER (
  Product_No CHAR(6) PRIMARY KEY,
  Description varchar2(15) not null,
  ProfitPercent number(4,2) not null,
  UnitMeasure varchar2(10) not null,
  SellPrice number(8,2) not null check (SellPrice between 10000 and 80000),
  CostPrice number(8,2) not null check (CostPrice > 1000)
);
desc PRODUCT_MASTER;
```


ResultsExplainDescribeSaved SQLHistory

Object TypeTABLE ?ObjectPRODUCT\_MASTER ?

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PRODUCT_MASTER	PRODUCT_NO	CHAR	6	-	-	1	-	-	-
	DESCRIPTION	VARCHAR2	15	-	-	-	-	-	-
	PROFITPERCENT	NUMBER	-	4	2	-	-	-	-
	UNITMEASURE	VARCHAR2	10	-	-	-	-	-	-
	SELLPRICE	NUMBER	-	8	2	-	-	-	-
	COSTPRICE	NUMBER	-	8	2	-	-	-	-

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```
CREATE TABLE SALESMAN_MASTER (
  Salesman_No char(6) primary key,
  SalesmanName varchar2(20) not null,
  Address varchar2(30) not null,
  City varchar2(20) check(City <> 'nagpur'),
  PinCode number(6) unique,
  State varchar2(20),
  SalAmt number(8,2)
);
```

```
desc SALESMAN_MASTER;
```

Results

Explain

Describe

Saved SQL

History

Object Type

TABLE

Object

SALESMAN\_MASTER

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
SALESMAN_MASTER	SALESMAN_NO	CHAR	6	-	-	1	-	-	-
	SALESMANNAME	VARCHAR2	20	-	-	-	-	-	-
	ADDRESS	VARCHAR2	30	-	-	-	-	-	-
	CITY	VARCHAR2	20	-	-	-	✓	-	-
	PINCODE	NUMBER	-	6	0	-	✓	-	-
	STATE	VARCHAR2	20	-	-	-	✓	-	-
	SALAMT	NUMBER	-	8	2	-	✓	-	-

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```
CREATE TABLE CLIENT_MASTER (  
    Client_No char(6) primary key,  
    Name varchar2(20) not null,  
    Address varchar2(100),  
    City varchar2(15),  
    Pincode number(6),  
    State varchar2(20),  
    Bal_Due number(8,2)  
);
```

```
desc CLIENT_MASTER;
```

Results

Explain

Describe

Saved SQL

History

Object Type

TABLE

Object

CLIENT\_MASTER

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CLIENT_MASTER	CLIENT_NO	CHAR	6	-	-	1	-	-	-
	NAME	VARCHAR2	20	-	-	-	-	-	-
	ADDRESS	VARCHAR2	100	-	-	-	✓	-	-
	CITY	VARCHAR2	15	-	-	-	✓	-	-
	PINCODE	NUMBER	-	6	0	-	✓	-	-
	STATE	VARCHAR2	20	-	-	-	✓	-	-
	BAL_DUE	NUMBER	-	8	2	-	✓	-	-

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```
desc SALES_ORDER;
```

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