Name: Ritu Choudhary Roll no: 51 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	
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	

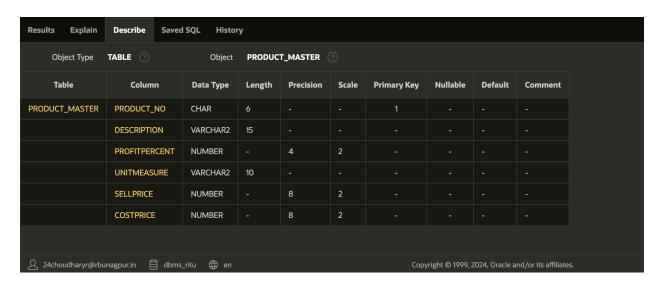
Sales_Order

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

OrderDate	Date		Not Null
Salesman_No	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;
```



```
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)
);
```

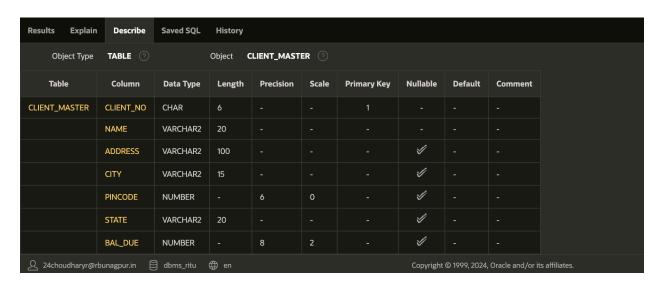
desc SALESMAN MASTER;

Results Explain	Describe Saved S	QL History							
Object Type	TABLE ?	Object	SALESMAN	I_MASTER(
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
SALESMAN_MASTER	SALESMAN_NO	CHAR	6						
	SALESMANNAME	VARCHAR2	20						
	ADDRESS	VARCHAR2	30						
	CITY	VARCHAR2	20				 ✓		
	PINCODE	NUMBER		6	0				
	STATE	VARCHAR2	20				\$		
	SALAMT	NUMBER		8	2		 ✓		
24choudharyr@rbun	agpur.in 🛢 dbms_ri	tu ⊕ en				Copyri	ght © 1999, 201	24, Oracle and	l/or its affiliates.

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;



```
CREATE TABLE SALES_ORDER (
Order_no char(6) primary key,
Client_No char(6),
OrderDate date not null,
Salesman_No char(6),
foreign key(Client_No) references CLIENT_MASTER(Client_No),
foreign key(Salesman_No) references SALESMAN_MASTER(Salesman_No)
);
```

desc SALES_ORDER;

Results Expl	ain Describe	Saved SQL	History						
Object Type TABLE ② Object SALES_ORDER ②									
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
SALES_ORDER	ORDER_NO	CHAR	6						
	CLIENT_NO	CHAR	6				 ✓		
	ORDERDATE	DATE	7						
	SALESMAN_NO	CHAR	6				 ✓		
24choudhary	r@rbunagpur.in	dbms_ritu (en 🗎				Copyright (9 1999, 2024,	Oracle and/or its