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B.Tech C.S.E

DIVISION: D

SUBJECT: D.B.M.S

Practical No:1

Aim: 1. Basic SQL commands

• Like Ed, spool etc.

2. Creating Table

3. Retrieve/view table structure

Practical No:1(b)

Aim: 1. Inserting data into the table.

2. View/Retrieve data from the table.

2. a) Create table client (used to store client information) having following attributes:

Column Name	Data Type	Size	
clientno	varchar2	6	
name	varchar2	20	
city	varchar2	15	
pincode	number	8	
state	varchar2	15	

CREATE TABLE CLIENT(

```
clientno varchar2(6),
name varchar2(20),
city varchar2(15),
pincode number(8),
state varchar2(15)
);
```

1. a) Insert the following data into client table:

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ClientNo	Name	City	Pincode	State
C01	Ivan Bayross	Mumbai	400054	Maharashtra
C02	Mamta Shah	Chennai	780001	Tamil Nadu
C03	Chhaya Patel	Mumbai	400057	Maharashtra
C04	Ashni Joshi	Bangalore	560001	Karnataka
C05	Harsh Desai	Mumbai	400060	Maharashtra
C06	Deepak Sharma	Mangalore	560050	Karnataka

INSERT INTO CLIENT(CLIENTNO, NAME, CITY, PINCODE, STATE)

VALUES ("C03", "Chhaya Patel", "Mumbai", 400057, "Maharashtra");

INSERT INTO CLIENT(CLIENTNO, NAME, CITY, PINCODE, STATE)

VALUES("C04", "Ashni Joshi", "Bangalore", 560001, "Karnataka");

INSERT INTO CLIENT(CLIENTNO,NAME,CITY,PINCODE,STATE)

VALUES("C05","Harsh Desai","Mumbai",400060,"Maharashtra");

INSERT INTO CLIENT(CLIENTNO, NAME, CITY, PINCODE, STATE)

VALUES("C06", "Deepak Sharma", "Mangalore", 560050, "Karnataka");

SELECT * FROM CLIENT;

CLIENTNO	NAME	CITY	PINCODE	STATE
C01	Ivan Bayross	Mumbai	400054	Maharashtra
C02	Mamta Shah	Chennai	780001	Tamil Nadu
C03	Chhaya Patel	Mumbai	400057	Maharashtra
C04	Ashni Joshi	Bangalore	560001	Karnataka
C05	Harsh Desai	Mumbai	400060	Maharashtra
C06	Deepak Sharma	Mangalore	560050	Karnataka

2. b) Create table product (used to store product information) having following attributes:

Column Name	Data Type	Size	
productno	varchar2	6	
description	varchar2	15	
profitpercent	number	4, 2	
unitmeasure	varchar2	10	
qtyonhand	number	8	
reorderlyl	number	8	
sellprice	number	8, 2	
costprice	number	8, 2	

CREATE TABLE PRODUCT(

```
productno varchar2(6),

description varchar2(15),

profitpercent number(4,2),

unitmeasure varchar2(10),

qtyonhand number(8),

reorderlvl number(8),

sellprice number(8,2),

costprice number(8,2)
```

1. b) Insert the following data into product table:

Product No	Description	Profit Percent	Unit Measure	Qty on hand	Reorder Level	Sell Price	Cost Price
P00001	1.44 Floppies	5	Piece	100	20	525	500
P03453	Monitors	6	Piece	10	3	12000	11200
P06734	Mouse	5	Piece	20	5	1050	500
P07865	1.22 Floppies	5	Piece	100	20	525	500
P07868	Keyboards	2	Piece	10	3	3150	3050

INSERT INTO

 $\label{lem:product} PRODUCT (product no, description, profit per cent, unit measure, qty on hand, reorder lvl, sell price, cost price)$

VALUES ("P00001","1.44 Floppies",5,"Piece",100,20,525,500);

INSERT INTO

PRODUCT(productno,description,profitpercent,unitmeasure,qtyonhand,reorderlvl,sel lprice,costprice)

VALUES ("P03453","Monitors",6,"Piece",10,3,12000,11200);

INSERT INTO

PRODUCT(productno,description,profitpercent,unitmeasure,qtyonhand,reorderlvl,sel lprice,costprice)

VALUES ("P06734","Mouse",5,"Piece",20,5,1050,500);

INSERT INTO

PRODUCT(productno,description,profitpercent,unitmeasure,qtyonhand,reorderlvl,sel lprice,costprice)

VALUES ("P07865","1.22 Floppies",5,"Piece",100,20,525,500);

INSERT INTO

PRODUCT(productno,description,profitpercent,unitmeasure,qtyonhand,reorderlvl,sel lprice,costprice)

VALUES ("P07868","Keyboards",2,"Piece",10,3,3150,3050);

SELECT * FROM PRODUCT:

productno	description	profitpercent	unitmeasure	qtyonhand	reorderlyl	sellprice	costprice
P00001	1.44 Floppies	5	Piece	100	20	525	500
P03453	Monitors	6	Piece	10	3	12000	11200
P06734	Mouse	5	Piece	20	5	1050	500
P07865	1.22 Floppies	5	Piece	100	20	525	500
P07868	Keyboards	2	Piece	10	3	3150	3050

2. c) Create table salesman (used to store salesman information working for the company) having following attributes:

Column Name	Data Type	Size
salesmanno	varchar2	6
salesmanname	varchar2	20
address	varchar2	30
city	varchar2	20

pincode number 8 state varchar2 20

CREATE TABLE salesman(
salesmanno varchar2(6),
salesmanname varchar2(20),
address varchar2(30),
city varchar2(20),
pincode number(8),
state varchar2(20)
);

1. c) Insert the following data into salesman table:

SalesmanNo	SalesmanName	Address	City	PinCode	State
S01	Aman	A/14	Mumbai	400002	Maharashtr
					a
S02	Omkar	65	Mumbai	400001	Maharashtr
					a
S03	Raj	P-7	Mumbai	400032	Maharashtr
					a
S04	Ashish	A/5	Mumbai	400044	Maharashtr
					a

INSERT INTO Salesman(salesmanno,salesmanname,address,city,pincode,state)

VALUES ("S01","Aman","A/14","Mumbai",400002,"Maharashtra");
INSERT INTO Salesman(salesmanno,salesmanname,address,city,pincode,state)
VALUES ("S02","Omkar","65","Mumbai",400001,"Maharashtra");
INSERT INTO Salesman(salesmanno,salesmanname,address,city,pincode,state)
VALUES ("S03","Raj","P-7 ","Mumbai",400032,"Maharashtra");
INSERT INTO Salesman(salesmanno,salesmanname,address,city,pincode,state)
VALUES ("S04","Ashish","A/5","Mumbai",400044,"Maharashtra");

SELECT * FROM SALESMAN

alesmanno	salesmanname	address	city	pincode	state
601	Aman	A/14	Mumbai	400002	Maharashtra
602	Omkar	65	Mumbai	400001	Maharashtra
03	Raj	P-7	Mumbai	400032	Maharashtra
04	Ashish	A/5	Mumbai	400044	Maharashtra

2. d) Create table sales_order (used to store client's orders) having following attributes:

Column Name	Data Type	Size
orderno	varchar2	6
clientno	varchar2	6
orderdate	date	
salesmanno	varchar2	6
delaydate	date	
orderstatus	varchar2	10

Create table sales_order(
orderno varchar2(6),
clientno varchar2(6),
orderdate date,
salesmanno varchar2(6),

```
delaydate date,
orderstatus varchar2(10)
);
```

1. d) Insert the following data into sales_order table :

OrderNo ClientNo OrderDate SalesmanNo DeliveryDate OrderStatus

019001	C01	12-01-16	S01	20-01-16	In Process
019002	C02	25-01-17	S02	27-01-17	Cancelled
046865	C03	18-02-17	S03	20-02-17	Fulfilled
019003	C01	03-04-16	S01	07-04-16	Fulfilled
046866	C04	20-05-16	S02	22-05-16	Cancelled
019008	C05	24-05-16	S04	26-05-16	In Process

INSERT INTO

Sales_order(orderno,clientno,orderdate,salesmanno,delaydate,orderstatus)

VALUES("019001","C01","12-01-16","S01","20-01-16","In Process");

INSERT INTO

Sales_order(orderno,clientno,orderdate,salesmanno,delaydate,orderstatus)

VALUES("019002","C02","25-01-17","S02","27-01-17","Cancelled");

INSERT INTO

Sales_order(orderno,clientno,orderdate,salesmanno,delaydate,orderstatus)

VALUES("046865","C03","18-02-17","S03", "20-02-17", "Fulfilled");

INSERT INTO

Sales_order(orderno,clientno,orderdate,salesmanno,delaydate,orderstatus)

VALUES("019003", "C01", "03-04-16", "S01", "07-04-16", "Fulfilled");

INSERT INTO

Sales_order(orderno,clientno,orderdate,salesmanno,delaydate,orderstatus)

VALUES("046866", "C04", "20-05-16", "S02", "22-05-16", "Cancelled");

INSERT INTO

Sales_order(orderno,clientno,orderdate,salesmanno,delaydate,orderstatus)

VALUES("019008", "C05", "24-05-16", "S04", "26-05-16", "In Process");

SELECT * FROM SALES_ORDER;

- 1		1			
orderno	clientno	orderdate	salesmanno	delaydate	orderstatus
019001	C01	12-01-16	S01	20-01-16	In Process
019002	C02	25-01-17	S02	27-01-17	Cancelled
O46865	C03	18-02-17	\$03	20-02-17	Fulfilled
019003	C01	03-04-16	S01	07-04-16	Fulfilled
046866	C04	20-05-16	S02	22-05-16	Cancelled
019008	C05	24-05-16	S04	26-05-16	In Process

2. e) Create table sales_order_details (used to store client's orders with details of each product ordered) having following attributes:

Column Name	Data Type	Size
orderno	varchar2	6
productno	varchar2	6
qtyordered	number	8
productrate	number	10.2

```
Create table sales_order_details(
    orderno varchar2(6),
    productno varchar2(6),
    qtyordered number(8),
    productrate number(10,2)
    );
```

1. e) Insert the following data into sales_order_details table :

OrderNo	ProductNo	QtyOrdered	ProductRate
019001	P00001	4	525
019001	P07965	2	8400
019001	P07885	2	5250
019002	P00001	10	525
046865	P07868	3	3150

INSERT INTO Sales_order_DETAILS(orderno,productno,qtyordered,productrate)
VALUES("019001","P00001", 4, 525);

INSERT INTO Sales_order_DETAILS(orderno,productno,qtyordered,productrate)
VALUES("019001" ,"P07965", 2 , 840);

INSERT INTO Sales_order_DETAILS(orderno,productno,qtyordered,productrate)
VALUES("019001" ,"P07885", 2 , 525);

INSERT INTO Sales_order_DETAILS(orderno,productno,qtyordered,productrate)
VALUES("019002" ,"P00001", 10, 52);

INSERT INTO Sales_order_DETAILS(orderno,productno,qtyordered,productrate)

VALUES("046865" ,"P07868", 3 , 315);

SELECT * FROM Sales_order_details;

orderno	productno	qtyordered	productrate
019001	P00001	4	525
019001	P07965	2	840
019001	P07885	2	525
019002	P00001	10	52
046865	P07868	3	315

2. f) Create table employee_details (used to store employee information) having following attributes:

Column Name	Data Type	Size
empid	varchar2	5
empname	varchar2	20
city	varchar2	10
pincode	number	7
state	varchar2	15

```
Create table employee_details(
empid varchar2(5),
empname varchar2(20),
city varchar2(10),
pincode number(7),
state varchar2(15)
);
```

1. f) Insert the following data into employee table:

empid	empname	City	PinCode	State
e01	Amar	Mumbai	400002	Maharashtr
				a
e02	Sam	Pune	400001	Maharashtr
				a
e03	Raj	Hyderaba	400032	Telengana
		d		
e04	Ashish	Bihar	400044	Bihar

INSERT INTO Employee_details(empid,empname,city,pincode,state)
VALUES("e01", "Amar", "Mumbai", 400002,"Maharashtra");

INSERT INTO Employee_details(empid,empname,city,pincode,state)
VALUES("e02", "Sam", "Pune", 400001 ,"Maharashtra");

INSERT INTO Employee_details(empid,empname,city,pincode,state)
VALUES("e03", "Raj", "Hyderabad", 400032, "Telengana");

INSERT INTO Employee_details(empid,empname,city,pincode,state) VALUES("e04", "Ashish", "Bihar", 400044 ,"Bihar");

SELECT * FROM Employee_details;

mpid	empname	city	pincode	state
01	Amar	Mumbai	400002	Maharashtra
02	Sam	Pune	400001	Maharashtra
03	Raj	Hyderabad	400032	Telengana
04	Ashish	Bihar	400044	Bihar

2. g) Create table student_details (used to store student information) having following attributes:

Column Name	Data Type	Size
student_Rollno.	varchar2	5
student_name	varchar2	20
Branch	varchar2	10
Division	varchar2	10
Marks	number	10
state	varchar2	15

```
Create table student_details(
   student_Rollno varchar2(5),
   student_name varchar2(20),
   Branch varchar2(10),
   Division varchar2(10),
   Marks number(10),
   state varchar2(15)
   );
```

1.g) Insert the following data into students table:

Student_Rollno.	student_nam	Branch	Divisio	Marks	State
	e		n		
101	Ram	CSE	A	86	Gujarat
102	Shyam	Civil	В	78	Bihar
103	Karan	Mech	D	85	Odisha
104	Preeti	EEE	С	91	Karnatak
105	Mahendra	Chem	В	87	Kerala
106	Sachin	CSE	D	79	Assam

INSERT INTO

Student_details(student_Rollno,student_name,Branch,Division,Marks,state)

VALUES("101", "Ram", "CSE","A " ,86 ,"Gujarat");

INSERT INTO

Student_details(student_Rollno,student_name,Branch,Division,Marks,state)

VALUES("102", "Shyam", "Civil", "B", 78, "Bihar");

INSERT INTO

Student_details(student_Rollno,student_name,Branch,Division,Marks,state)

VALUES("103", "Karan", "Mech", "D", 85, "Odisha");

INSERT INTO

Student_details(student_Rollno,student_name,Branch,Division,Marks,state)

VALUES("104", "Preeti", "EEE", "C", 91, "Karnataka");

INSERT INTO

Student_details(student_Rollno,student_name,Branch,Division,Marks,state)

VALUES("105", "Mahendra", "Chem", "B", 87, "Kerala");

INSERT INTO

Student_details(student_Rollno,student_name,Branch,Division,Marks,state)

VALUES("106", "Sachin", "CSE", "D", 79, "Assam");

SELECT * FROM Student_details;

student_Rollno	student_name	Branch	Division	Marks	state
101	Ram	CSE	Α	86	Gujarat
101	Ram	CSE	Α	86	Gujarat
102	Shyam	Civil	В	78	Bihar
103	Karan	Mech	D	85	Odisha
104	Preeti	EEE	С	91	Karnataka
105	Mahendra	Chem	В	87	Kerala
106	Sachin	CSE	D	79	Assam



CONCLUSION:

IN THIS PRACTICAL WE UNDERSTOOD HOW TO ENTER DATA IN THE FORM OF TABLE USING SQL AND RETRIVING DATA FROM THE TABLE AND PRINT DATA IN THE FORM OF TABLE.