



Parul University



**FACULTY OF ENGINEERING AND TECHNOLOGY
BACHELOR OF TECHNOLOGY
(303105204)**

III SEMESTER

Computer Science & Engineering Department

Laboratory manual (2023-24)

DBMS PRACTICAL BOOK

COMPUTER SCIENCE & ENGINEERING DEPARTMENT

PREFACE

It gives us immense pleasure to present the first edition of the **DBMS**

Practical Book for the B.Tech . 3rd semester students for **PARUL UNIVERSITY**.

The **DBMS** theory and laboratory courses at PARUL UNIVERSITY, WAGHODIA, VADODARA are designed in such a way that students develop the basic understanding of the subject in the theory classes and then try their hands on the experiments to realize the various implementations of problems learnt during the theoretical sessions. The main objective of the **DBMS** laboratory course is: Learning **DBMS** through Experimentations. All the experiments are designed to illustrate various problems in different areas of **DBMS** and also to expose the students to various uses.

The objective of this **DBMS** Practical Book is to provide a comprehensive source for all the experiments included in the **DBMS** laboratory course. It explains all the aspects related to every experiment such as: basic underlying concept and how to analyze a problem. It also gives sufficient information on how to interpret and discuss the obtained results.

We acknowledge the authors and publishers of all the books which we have consulted while developing this Practical book. Hopefully this **DBMS** Practical Book will serve the purpose for which it has been developed.

INSTRUCTIONS TO STUDENTS

1. The main objective of the **DBMS** laboratory is: Learning through the Experimentation. All the experiments are designed to illustrate various problems in different areas of **DBMS** and also to expose the students to various problems and their uses.
2. Be prompt in arriving to the laboratory and always come well prepared for the practical.
3. Every student should have his/her individual copy of the **DBMS** Practical Book.
4. Every student have to prepare the notebooks specifically reserved for the **DBMS** practical work: " **DBMS** Practical Book"
5. Every student has to necessarily bring his/her **DBMS** Practical Book, **DBMS** Practical Class Notebook and **DBMS** Practical Final Notebook.
6. Finally find the output of the experiments along with the problem and note results in the **DBMS** Practical Notebook.
7. The grades for the **DBMS** practical course work will be awarded based on our performance in the laboratory, regularity, recording of experiments in the **DBMS** Practical Final Notebook, lab quiz, regular viva-voce and end-term examination.

PRACTICAL - 1

PRACTICAL - 1

1) WHAT IS DBMS ?

DBMS is a software which is established to manage the data in form of Data Base, Table,

Schema.

Advantages of DBMS over FPS :-

- . DBMS is more secured when compared to FPS
- . DBMS contain the data backup
- . DATA is independent in DBMS
- . DBMS hide details rather than showing all the information
- . DBMS sharing the data is more easy in DBMS than FPS
- . DBMS the data is more consistent than FPS
- . DBMS have a crash recovery

Applications of DBMS :-

1. Banking and Financial Systems
2. E-commerce
3. Human Resources Management
4. Healthcare Systems
5. Airlines and Reservation Systems
6. Social Media Platforms
7. Supply Chain Management
8. Educational Institutions
9. Online Gaming
10. Library Management Systems
11. Telecommunication Systems

12. Manufacturing and Inventory Control

13. Government and Public Sector

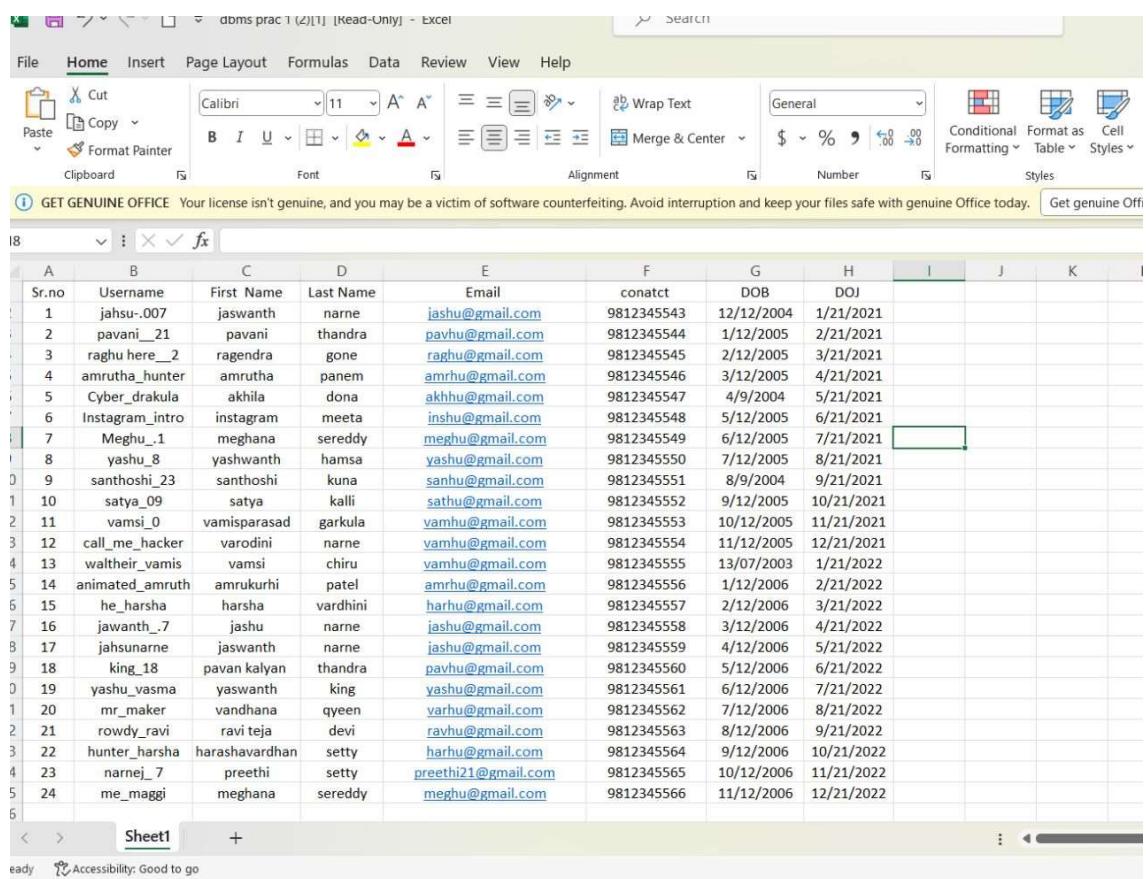
14. Hotel and Hospitality Management

15. Research and Scientific Applications

Create a Database for Student Details Using MS EXCEL :-

SR.NO	ERP.NO	Name of the student	Course	SEM	Address	Contact	Email-Id	D.O.B	ious year grade
1	203150	S.Meghana	CSE	3	AP	9876543210	meghana@gmail.com	12/2/2004	A+
2	203151	N.jaswanth	CSE	3	AP	9976554210	jaswanth@gmail.com	1/2/2005	A+
3	203152	S.renuka	CSE	3	AP	8945671535	renuka@gmail.com	2/2/2005	A+
4	203153	N.Sweety	CSE	3	AP	6876545510	sweety@gmail.com	3/2/2005	A+
5	203154	G. manasa	CSE	3	AP	6587222413	manasa@gmail.com	4/2/2005	A+
6	203155	M.nomitha	CSE	3	TS	9876666610	nomitha@gmail.com	5/2/2005	A+
7	203156	A.Sagar	CSE	3	AP	9956543210	sagar@gmail.com	6/2/2005	A+
8	203157	B.Navya	CSE	3	AP	7786543211	navya@gmail.com	7/2/2005	A+
9	203158	C.chaitanya	CSE	3	TS	8529637415	chaitanya@gmail.com	8/2/2005	A+
10	203159	D.shyam	CSE	3	AP	9638527415	shyam@gmail.com	9/2/2005	A+
11	203160	M.rajesh	CSE	3	AP	7539651145	rajesh@gmail.com	10/2/2005	A+
12	203161	N.rajeswari	CSE	3	AP	6549123489	rajeswari@gmail.com	11/2/2005	B
13	203162	T.thanu sri	CSE	3	TS	7418596356	thanu sri@gmail.com	12/2/2005	B
14	203163	L.mounika	CSE	3	TS	8527496312	mounika@gmail.com	1/2/2006	B
15	203164	R.ram kumar	CSE	3	TS	9638571654	ram kumar@gmail.com	2/2/2006	B
16	203165	S.hemanth	CSE	3	AP	8527496153	hemanth@gmail.com	3/2/2006	B
17	203166	G.ganesh	CSE	3	TS	8527436158	ganesh@gmail.com	4/2/2006	B
18	203167	P.pallavi	CSE	3	AP	9966887744	pallavi@gmail.com	5/2/2006	B
19	203168	A. pijitha	CSE	3	TS	6548529413	pijitha@gmail.com	6/2/2006	B
20	203169	S. deepika	CSE	3	AP	8886542315	deepika@gmail.com	7/2/2006	B
21	203170	CH.karthik	CSE	3	AP	7418529635	karthik@gmail.com	8/2/2006	P
22	203171	M.prasanth	CSE	3	GJ	6548715486	prasanth@gmail.com	9/2/2006	P
23	203172	M.kumar	CSE	3	GJ	9638527536	kumar@gmail.com	10/2/2006	P
24	203173	K.ram varma	CSE	3	GJ	7799284658	ram varma@gmail.com	11/2/2006	P
25	203174	lokesh	CSE	3	AP	9966554125	lokesh@gmail.com	12/2/2006	P

Create a Database for Storing The Information of Facebook:-



The screenshot shows a Microsoft Excel spreadsheet titled "dbms prac 1 (2)|1| [Read-Only] - Excel". The table contains 24 rows of data with the following columns: Sr.no, Username, First Name, Last Name, Email, concat, DOB, DOJ, and I. The data includes various names and email addresses, such as jahsu-.007, pavani_21, raghu here_2, amrutha_hunter, Cyber_drakula, Instagram_intro, Meghu_.1, yashu_8, santhoshi_23, satya_09, vamsi_0, call_me_hacker, walther_vamis, animated_amruth, he_harsha, jawanth_.7, jahsunarme, king_18, yashu_yasma, mr_maker, rowdy_ravi, hunter_harsha, narnej_7, me_maggi, and jaswanth, thandra, gone, panem, akhila, meeta, serddy, hamsa, kuna, kalli, vamisparasad, varodini, vamsi, amrurkhi, harsha, jashu, name, jashu, pavan kalyan, yaswanth, vandhana, ravi teja, harashavardhan, preethi, setty, narne, and meghana. The "concat" column contains values like 9812345543, 9812345544, 9812345545, 9812345546, 9812345547, 9812345548, 9812345549, 9812345550, 9812345551, 9812345552, 9812345553, 9812345554, 9812345555, 9812345556, 9812345557, 9812345558, 9812345559, 9812345560, 9812345561, 9812345562, 9812345563, 9812345564, 9812345565, and 9812345566.

Sr.no	Username	First Name	Last Name	Email	concat	DOB	DOJ	I
1	jahsu-.007	jaswanth	narne	jahsu@gmail.com	9812345543	12/12/2004	1/21/2021	
2	pavani_21	pavani	thandra	pavhu@gmail.com	9812345544	1/12/2005	2/21/2021	
3	raghu here_2	ragendra	gone	raghu@gmail.com	9812345545	2/12/2005	3/21/2021	
4	amrutha_hunter	amrutha	panem	amrhu@gmail.com	9812345546	3/12/2005	4/21/2021	
5	Cyber_drakula	akhila	dona	akhhu@gmail.com	9812345547	4/9/2004	5/21/2021	
6	Instagram_intro	instagram	meeta	inshu@gmail.com	9812345548	5/12/2005	6/21/2021	
7	Meghu_.1	meghana	serddy	meghu@gmail.com	9812345549	6/12/2005	7/21/2021	
8	yashu_8	yashwanth	hamsa	yashu@gmail.com	9812345550	7/12/2005	8/21/2021	
9	santhoshi_23	santhoshi	kuna	sanhu@gmail.com	9812345551	8/9/2004	9/21/2021	
10	satya_09	satya	kalli	sathu@gmail.com	9812345552	9/12/2005	10/21/2021	
11	vamsi_0	vamisparasad	garkula	vamhu@gmail.com	9812345553	10/12/2005	11/21/2021	
12	call_me_hacker	varodini	narne	vamhu@gmail.com	9812345554	11/12/2005	12/21/2021	
13	walther_vamis	vamsi	chiru	vamhu@gmail.com	9812345555	13/07/2003	1/21/2022	
14	animated_amruth	amrurkhi	patel	amrhu@gmail.com	9812345556	1/12/2006	2/21/2022	
15	he_harsha	harsha	vardhini	harhu@gmail.com	9812345557	2/12/2006	3/21/2022	
16	jawanth_.7	jashu	name	jahsu@gmail.com	9812345558	3/12/2006	4/21/2022	
17	jahsunarme	jaswanth	narne	jahsu@gmail.com	9812345559	4/12/2006	5/21/2022	
18	king_18	pavan kalyan	thandra	pavhu@gmail.com	9812345560	5/12/2006	6/21/2022	
19	yashu_yasma	yaswanth	king	yashu@gmail.com	9812345561	6/12/2006	7/21/2022	
20	mr_maker	vandhana	qyeen	varhu@gmail.com	9812345562	7/12/2006	8/21/2022	
21	rowdy_ravi	ravi teja	devi	ravhu@gmail.com	9812345563	8/12/2006	9/21/2022	
22	hunter_harsha	harashavardhan	setty	harhu@gmail.com	9812345564	9/12/2006	10/21/2022	
23	narnej_7	preethi	setty	preethi21@gmail.com	9812345565	10/12/2006	11/21/2022	
24	me_maggi	meghana	serddy	meghu@gmail.com	9812345566	11/12/2006	12/21/2022	

PRACTICAL - 2

PRACTICAL - 2

Create following Tables:

Important Instructions:

- Use varchar2(30) datatype for Alphanumeric Characters and Special Symbols, number datatype for Numbers, date datatype for Date.
- Use same table and column name (Capital and Small Case) as mentioned in this file.
- Insert proper data (Capital and Small Case) as mentioned in this file.

TABLE – 1: EMPLOYEE

Emp_name	Street	City
Adam	Spring	Pittsfield
Brooks	Senator	Brooklyn
Curry	North	Rye
Demalo	SunShine	San Deago

INPUT:

```
create table Employee
(emp_name varchar2(20),
street varchar2(20),City varchar2 (20));
insert into Employee (Emp_name,street,city) values ('Adam','Spring','Pittsfield');
insert into Employee (Emp_name,street,city) values ('Brooks','Senator','Brooklyn');
insert into Employee (Emp_name,street,city) values ('Curry','North','Rye');
insert into Employee (Emp_name,street,city) values ('Demalo','SunShine','San Deago');
select * from Employee;
```

OUTPUT:

```
SQL> select * from Employee_table;
EMP_NAME          STREET           CITY
-----            -----
Adam              spring           pittsfield
Brooks             senator          Brooklyn
Curry              North            Rye
Demalo             Sun shine       San Deago
SQL> |
```

TABLE – 2: WORK

Emp_name	Cmp_name	Salary
Adam	FBC	20000
Brooks	MBC	30000
Curry	SBC	10000

INPUT:

```
create table Work
(Emp_name varchar2(20),
Cmp_name varchar2(20),Salary number(20));
insert into Work (emp_name,Cmp_name,Salary) values ('Adam','FBC','20000');
insert into Work (emp_name,Cmp_name,Salary) values ('Brooks','MBC','30000');
insert into Work (emp_name,Cmp_name,Salary) values ('Curry','SBC','10000');
select * from Work
```

OUTPUT:

```
SQL> select * from Work_table;
EMP_NAME          CMP_NAME        SALARY
-----            -----
Adam              FBC             20000
Brooks            MBC             30000
Curry             SBC             10000
SQL> |
```

TABLE-3: COMPANY

Cmp_name	City
FBC	Pittsfield
MBC	Brooklyn
SBC	Rye

INPUT

```
create table Company
(Cmp_name varchar2(20), City varchar2(20));
insert into Company(Cmp_name,City) values('FBC','Pittsfield');
insert into Company(Cmp_name,City) values('MBC','Brooklyn');
insert into Company(Cmp_name,City) values('SBC','Rye');
select * from Company
```

OUTPUT:

```
SQL> select * from Company_table;
-----+
CNP_NAME          CITY
-----+
FBC               pittsfield
MBC               Brookly
SBC               Rye
SQL> |
```

TABLE-4: MANAGER

Emp_name	Man_name
Adam	Smith
Brooks	Jones
Curry	Hayes

INPUT:

```
create table Manager
```

```
(Emp_name varchar2 (20),  
Man_name varchar2 (20));  
  
insert into Manager (Emp_name,Man_name) values ('Adam', 'Smith');  
insert into Manager (Emp_name,Man_name) values ('Brooks', 'Jones');  
insert into Manager (Emp_name,Man_name) values ('Curry', 'Hayes');  
select * from Manager
```

OUTPUT:

```
SQL> select * from Manager_table;
```

EMP_NAME	MAN_NAME
Adam	Smith
Brooks	Jones
Curry	Hayes

```
SQL> |
```

TABLE-5: SAILORS

Sid	Sname	Rating	Age
22	Dustin	7	45.0
29	Brutus	1	33.0
31	Lubber	8	55.5
32	Andy	8	25.5

58	Rusty	10	35.0
64	Horatio	7	35.0
71	Zobra	10	16.0
74	Horatio	9	35.0
85	Art	3	25.5
95	Bob	3	63.5

INPUT

```

create table Sailors
(Sid number(20),
Sname varchar(20),Rating number(20),
Age number(10,2));
insert into Sailors (Sid,Sname,Rating,Age) values ('22','dustin','7','45.0')
insert into Sailors (Sid,Sname,Rating,Age) values ('29','brutus','1','33.0')
insert into Sailors (Sid,Sname,Rating,Age) values ('31','lubber','8','55.5')
insert into Sailors (Sid,Sname,Rating,Age) values ('32','Andy','8','25.5')
insert into Sailors (Sid,Sname,Rating,Age) values ('58','Rusty','10','35.0')
insert into Sailors (Sid,Sname,Rating,Age) values ('64','Horatio','7','35.0')
insert into Sailors (Sid,Sname,Rating,Age) values ('71','Zobra','10','16.0')
insert into Sailors (Sid,Sname,Rating,Age) values ('74','Horatio','9','35.0')
insert into Sailors (Sid,Sname,Rating,Age) values ('85','Art','3','25.5')
insert into Sailors (Sid,Sname,Rating,Age) values ('95','Bob','3','63.5')
select * from Sailors

```

OUTPUT:

```
SQL> select * from Sailoors;
      SID SNAME          RATING   AGE
-----  -----
    22 DUSTIN            7        45
    29 BRUTUS            1        33
    31 LUBBER            8        56
    32 ANDY              8        26
    58 RUSTY             10       35
    64 HORATIO            7        35
    71 ZOBRA              9        16
    74 HORATIO            9        35
    85 ART                9        25
    95 BOB               3        64
10 rows selected.
```

TABLE -6: RESERVES

Sid	Bid	Day
22	101	10 -oct- 98
22	102	10 -oct- 98
22	103	10 -aug 98
22	104	10 -jul- 98
31	102	11 -oct- 98
31	103	11 -jun- 98
31	104	11 -dec- 98
64	101	9 -may- 98
64	102	9 - aug- 98
74	103	9 -aug- 98

INPUT:

```
create table Reserves
(sid NUMBER,bid NUMBER,day DATE);
insert into Reserves (sid,bid,day) values('22','101', to_date('10-10-1998','MM-DD-YYYY'));
insert into Reserves (sid,bid,day) values('22','102', to_date('10-10-1998','MM-DD-YYYY'));
insert into Reserves (sid,bid,day) values('22','103', to_date('08-10-1998','MM-DD-YYYY'));
```

```

insert into Reserves (sid,bid,day) values('22','104', to_date('07-10-1998','MM-DD-YYYY'));
insert into Reserves (sid,bid,day) values('31','102', to_date('10-11-1998','MM-DD-YYYY'));
insert into Reserves (sid,bid,day) values('31','103', to_date('06-11-1998','MM-DD-YYYY'));
insert into Reserves (sid,bid,day) values('31','104', to_date('12-11-1998','MM-DD-YYYY'));
insert into Reserves (sid,bid,day) values('64','101', to_date('05-09-1998','MM-DD-YYYY'));
insert into Reserves (sid,bid,day) values('64','102', to_date('08-09-1998','MM-DD-YYYY'));
insert into Reserves (sid,bid,day) values('74','103', to_date('08-09-1998','MM-DD-YYYY'));
select * from Reserves

```

OUTPUT:

```
SQL> select * from Reserves;
```

SID	BID	DAY
22	101	10-OCT-98
22	102	10-OCT-98
22	103	10-AUG-98
22	104	10-JUL-98
31	102	11-OCT-98
31	102	11-OCT-98
31	103	11-JUN-98
31	104	11-DEC-98
64	101	09-MAY-98
64	102	09-AUG-98
74	103	09-AUG-98

TABLE – 7: BOATS

Bid	Bname	Color
101	Interlake	Blue
102	Interlake	Red
103	Clipper	Green
104	Marine	Red

INPUT:

```
create table Boats
```

```
(Bid number(20),Bname varchar(20),Color varchar(20));

insert into Boats (Bid,Bname,Color) values ('101','Interlake','Blue');

insert into Boats (Bid,Bname,Color) values ('102','Interlake','Red');

insert into Boats (Bid,Bname,Color) values ('103','Clipper','Green');

insert into Boats (Bid,Bname,Color) values ('104','Marine','Red');

select * from Boats
```

OUTPUT:

```
SQL> select * from Boats;

      BID    BNAME          COLOR
-----  -----
    101  INTERLAKE        BLUE
    102  INTERLAKE        RED
    103  CLIPPER          GREEN
    104  MARINE           RED

SQL> |
```

TABLE – 8: CLIENT

Cl_no	Name	City	Pincode	State	Baldue
C00001	Ivan Bayross	Mumbai	400054	Maharashtra	15000
C00002	Mamta Muzumdar	Madras	780001	Tamil Nadu	100
C00003	Chhaya Bankar	Mumbai	400057	Maharashtra	5000
C00004	Ashwini Joshi	Bangalore	560001	Karnataka	500
C00005	Hansel Colaco	Mumbai	400060	Maharashtra	2000
C00006	Deepak Sharma	Mangalore	560050	Karnataka	1000

INPUT:

```
create table Client

(Cl_no  varchar(20),  Name  Varchar(20),City  varchar  (20),Pincode  number(20),State
varchar(20),Baldue number(20));
```

```

insert into Client (Cl_no,Name,City,Pincode,State,Baldue) values ('C00001','Ivan
Bayross','Mumbai','400054','Maharashtra','15000');

insert into Client (Cl_no,Name,City,Pincode,State,Baldue) values ('C00002','Manmata
Muzumdar','Madras','780001','Tamil Nadu','100');

insert into Client (Cl_no,Name,City,Pincode,State,Baldue) values ('C00003','Chhaya
Bankar','Mumbai','400057','Maharashtra','5000');

insert into Client (Cl_no,Name,City,Pincode,State,Baldue) values ('C00004','Ashwini
Joshi','Bangalore','560001','Karnataka','500');

insert into Client (Cl_no,Name,City,Pincode,State,Baldue) values ('C00005','Hansel
Colaco','Mumbai','400060','Maharashtra','2000');

insert into Client (Cl_no,Name,City,Pincode,State,Baldue) values ('C00006','Deepak
Sharma','Mangalore','560050','Karnataka','1000');

select * from Client

```

OUTPUT:

CL_NO	NAME	CITY	PINCODE	STATE
<hr/>				
BALDUE				
C00001	IVAN BAYROSS	MUMBAI	400054	MAHARASTRA
		15000		
C00002	MAMTA MUZUMDAR	MADRAS	780001	TAMILNADU
		100		
CL_NO	NAME	CITY	PINCODE	STATE
<hr/>				
BALDUE				
C00003	CHHAYA BANKAR	MUMBAI	400057	MAHARASTRA
		5000		
C00004	ASWINI JOSHI	BANGLORE	560001	KARNATAKA
CL_NO	NAME	CITY	PINCODE	STATE
<hr/>				
BALDUE				
		500		

TABLE-9: PRODUCT

Pr_no	Dscr	Profit	Unit	Qty	Reorder_Lvl	Sell_Price	Cost_Price
P00001	T-Shirts	5	Piece	200	50	350	250
P0345	Shirts	6	Piece	150	50	500	350
P06734	Cotton Jeans	5	Piece	100	20	600	450
P07865	Jeans	5	Piece	100	20	750	500
P07868	Trousers	2	Piece	150	50	850	550
P07885	Pull Overs	3	Piece	80	30	700	450
P07965	Denim Shirts	4	Piece	100	40	350	250
P07975	Lycra Tops	5	Piece	70	30	300	175
P08865	Skirts	5	Piece	75	30	450	300

INPUT:

```
create table Product
```

```
(Pr_no varchar(20), Dscr varchar2(20), Profit number(20),
Unit varchar2(20), Qty number(20), Reorder_Lvl number(20), Sell_Price number(20),
Cost_price number(20));
```

```
insert into Product (Pr_no, Dscr, Profit, Unit, Qty, Reorder_Lvl, Sell_Price, Cost_Price) values
('P00001', 'T-Shirts', '5', 'Piece', '200', '50', '350', '250');
```

```
insert into Product (Pr_no, Dscr, Profit, Unit, Qty, Reorder_Lvl, Sell_Price, Cost_Price) values
('P0345', 'Shirts', '6', 'Piece', '150', '50', '500', '350');
```

```
insert into Product (Pr_no, Dscr, Profit, Unit, Qty, Reorder_Lvl, Sell_Price, Cost_Price) values
('P06734', 'Cotton Jeans', '5', 'Piece', '100', '20', '600', '450');
```

```
insert into Product (Pr_no, Dscr, Profit, Unit, Qty, Reorder_Lvl, Sell_Price, Cost_Price) values
('P07865', 'Jeans', '5', 'Piece', '100', '20', '750', '500');
```

```
insert into Product (Pr_no, Dscr, Profit, Unit, Qty, Reorder_Lvl, Sell_Price, Cost_Price) values
('P07868', 'Trousers', '2', 'Piece', '150', '50', '850', '550');
```

```
insert into Product (Pr_no,Dscr,Profit,Unit,Qty,Reorder_Lvl,Sell_Price,Cost_Price) values  
('P07885','Pull Overs','3','Piece','80','30','700','450');  
  
insert into Product (Pr_no,Dscr,Profit,Unit,Qty,Reorder_Lvl,Sell_Price,Cost_Price) values  
('P07965','Denim Shirts','4','Piece','100','40','350','250');  
  
insert into Product (Pr_no,Dscr,Profit,Unit,Qty,Reorder_Lvl,Sell_Price,Cost_Price) values  
('P07975','Lycra Tops','5','Piece','70','30','300','175');  
  
insert into Product (Pr_no,Dscr,Profit,Unit,Qty,Reorder_Lvl,Sell_Price,Cost_Price) values  
('P08865','Skirts','5','Piece','75','30','450','300');  
  
select * from Product
```

OUTPUT:

```
SQL> select * from Product;
```

PR_NO PROFIT	DSCR
	UNIT
	QTY RECORD_LVL SELL_PRICE COST_PRICE
P00001 5	T-Shirts
Piece	200 50 350 250
P0345 6	Shirts
Piece	150 50 500 350
P06734 5	Cotton jeans
Piece	100 20 600 450

PR_NO PROFIT	DSCR
	UNIT
	QTY RECORD_LVL SELL_PRICE COST_PRICE
P07865 5	Jeans
Piece	100 20 750 500
P07868 5	Trousers
Piece	150 50 850 550
P07885 2	Pull overs
Piece	80 30 700 450

PR_NO PROFIT	DSCR
	UNIT
	QTY RECORD_LVL SELL_PRICE COST_PRICE
P07965 3	Denim shirts
Piece	100 30 300 175
P08865 4	Lycra tops
Piece	70 30 450 300
P07975 2	Skits
piece	75 30 450 300

SI_no	Name	Add1	Add2	City	Pin	State	Amt	Tgt	Sales	Rem
-------	------	------	------	------	-----	-------	-----	-----	-------	-----

S00001	Aman	A/14	Worli	Mumbai	400002	Maharashtra	3000	100	50	Good
S00002	Omkar	65	Nariman	Mumbai	400001	Maharashtra	3000	200	100	Good
S00003	Raj	P-7	Bandra	Mumbai	400032	Maharashtra	3000	200	100	Good
S00004	Ashish	A/5	Juhu	Mumbai	400044	Maharashtra	3500	200	150	Good

TABLE-10: SALESMAN**INPUT:**

```
create table Salesman
```

```
(Sl_no    varchar2(20),Name    varchar2(20),Add1    varchar2(20),Add2    varchar2(20),City
varchar2(20),Pin number(20), State varchar2(20), Amt number(20),Tgt number(20),Sales
number(20), Rem varchar2(20));
```

```
insert into Salesman (Sl_no,Name,Add1,Add2,City,Pin,State,Amt,Tgt,Sales,Rem)
```

```
values
```

```
('S00001','Aman','A/14','Worli','Mumbai','400002','Maharashtra','3000','100','50','Good');
```

```
insert into Salesman (Sl_no,Name,Add1,Add2,City,Pin,State,Amt,Tgt,Sales,Rem)
```

```
values
```

```
('S00001','Omkar','65','Nariman','Mumbai','400001','Maharashtra','3000','200','100','Good');
```

```
insert into Salesman (Sl_no,Name,Add1,Add2,City,Pin,State,Amt,Tgt,Sales,Rem)
```

```
values
```

```
('S00003','Raj','P-
```

```
7','Bandra','Mumbai','400032','Maharashtra','3000','200','100','Good');
```

```
insert into Salesman (Sl_no,Name,Add1,Add2,City,Pin,State,Amt,Tgt,Sales,Rem)
```

```
values
```

```
('S00004','Ashish','A/5','Juhu','Mumbai','400044','Maharashtra','3500','200','150','Good');
```

```
select * from Salesman
```

OUTPUT:

ADD2	CITY	PIN STATE	
AMT	TGT	SALES	REM
S00001 Worli	Aman Mumbai		A/14 400002 Maharashtra
3000	100	50	Good
SL_NO	NAME	ADD1	
ADD2	CITY	PIN STATE	
AMT	TGT	SALES	REM
S00003 Bandra	Raj Mumbai		P-7 400032 Maharashtra
3000	200	100	Good
S00004 Juhu	Ashish Mumbai		A/5 400044 Maharashtra
SL_NO	NAME	ADD1	
ADD2	CITY	PIN STATE	
AMT	TGT	SALES	REM
3500	200	150	Good

TABLE-11: SALESORDER

Od_no	Cl_no	O_dat	Sl_no	D-Type	Bill	D_dat	Status
O19001	C00001	12-JUN-04	S00001	F	N	20-JUL-04	In Process
O19002	C00002	25-JUN-04	S00002	P	N	27-JUN-04	Cancelled
O46865	C00003	18-FEB-04	S00003	F	Y	20-FEB-04	Fulfilled
O19003	C00001	03-APR-04	S00001	F	Y	07-APR-04	Fulfilled
O46866	C00004	20-MAY-04	S00002	P	N	22-MAY-04	Cancelled
O19008	C00005	24-MAY-04	S00004	F	N	26-JUL-04	In Process

INPUT:

```
create table Salesorder
```

```
(Od_no varchar2(20), Cl_no varchar2(20), O_dat DATE, Sl_no varchar2(20), D_Type char(1),
```

```
Bill char(1),D_dat DATE,Status varchar2(20));
```

```
insert into Salesorder (Od_no, Cl_no, O_dat, Sl_no, D_Type, Bill, D_dat, Status)
```

```
values ('O19002', 'C00002', DATE '2004-06-25', 'S00002', 'P', 'N', DATE '2004-06-27',  
'Cancelled');
```

```

insert into Salesorder (Od_no, Cl_no, O_dat, Sl_no, D_Type, Bill, D_dat, Status)
values ('O46865', 'C00003', DATE '2004-02-18', 'S00003', 'F', 'Y', DATE '2004-02-20', 'Fulfilled');

insert into Salesorder (Od_no, Cl_no, O_dat, Sl_no, D_Type, Bill, D_dat, Status)
values ('O19003', 'C00001', DATE '2004-04-03', 'S00001', 'F', 'Y', DATE '2004-04-07', 'Fulfilled');

insert into Salesorder (Od_no, Cl_no, O_dat, Sl_no, D_Type, Bill, D_dat, Status)
values ('O46866', 'C00004', DATE '2004-05-20', 'S00002', 'P', 'N', DATE '2004-05-22',
'Cancelled');

insert into Salesorder (Od_no, Cl_no, O_dat, Sl_no, D_Type, Bill, D_dat, Status)
values ('O19008', 'C00005', DATE '2004-05-24', 'S00004', 'F', 'N', DATE '2004-07-26', 'In
Process');

select * from Salesorder

```

OUTPUT:

OD_NO D B	CL_NO	O_DAT	SL_NO
D_DAT	STATUS		
019002 P N 27-JUN-04	C00002 Cancelled	25-JUN-04	S00002
046865 F Y 20-FEB-04	C00003 Fulfilled	18-FEB-04	S00003
019003 07-APR-04	C00001 Fulfilled	03-APR-04	S00001
			F Y
OD_NO D B	CL_NO	O_DAT	SL_NO
D_DAT	STATUS		
046866 P N 22-MAY-04	C00004 Cancelled	20-MAY-04	S00002
019008 F N 26-JUL-04	C00005 In Process	24-MAY-04	S00004

TABLE-12: SALESORDER_DETAILS

Od_no	Pr_no	Qty_order	Qty_disp	Rate

O19001	P00001	4	4	525
O19001	P07965	2	1	8400
O19001	P07885	2	1	5250
O19002	P00001	10	0	525
O46865	P07868	3	3	3150
O46865	P07885	3	1	5250
O46865	P00001	10	10	525
O46865	P0345	4	4	1050
O19003	P0345	2	2	1050
O19003	P06734	1	1	12000
O46866	P07965	1	0	8400
O46866	P07975	1	0	1050
O19008	P00001	10	5	525
O19008	P07975	5	3	1050

INPUT:

```

create table Salesorder_Details
(Od_no varchar2(20),Pr_no varchar2(20), Qty_order number(20), Qty_disp number(20),Rate
number(20));

insert      into      Salesorder_Details      (Od_no,Pr_no,Qty_order,Qty_disp,Rate)      values
('O19001','P00001','4','4','525');

insert      into      Salesorder_Details      (Od_no,Pr_no,Qty_order,Qty_disp,Rate)      values
('O19001','P07965','2','1','8400');

```

```
insert into Salesorder_Details (Od_no,Pr_no,Qty_order,Qty_disp,Rate) values ('O19001','P07885','2','1','5250');

insert into Salesorder_Details (Od_no,Pr_no,Qty_order,Qty_disp,Rate) values ('O19002','P00001','10','0','525');

insert into Salesorder_Details (Od_no,Pr_no,Qty_order,Qty_disp,Rate) values ('O46865','P07868','3','3','3150');

insert into Salesorder_Details (Od_no,Pr_no,Qty_order,Qty_disp,Rate) values ('O46865','P07865','3','1','5250');

insert into Salesorder_Details (Od_no,Pr_no,Qty_order,Qty_disp,Rate) values ('O46865','P00001','10','10','525');

insert into Salesorder_Details (Od_no,Pr_no,Qty_order,Qty_disp,Rate) values ('O46865','P0345','4','4','1050');

insert into Salesorder_Details (Od_no,Pr_no,Qty_order,Qty_disp,Rate) values ('O19003','P0345','2','2','1050');

insert into Salesorder_Details (Od_no,Pr_no,Qty_order,Qty_disp,Rate) values ('O19003','P06734','1','1','12000');

insert into Salesorder_Details (Od_no,Pr_no,Qty_order,Qty_disp,Rate) values ('O46866','P07965','1','0','8400');

insert into Salesorder_Details (Od_no,Pr_no,Qty_order,Qty_disp,Rate) values ('O46866','P07975','1','0','1050');

insert into Salesorder_Details (Od_no,Pr_no,Qty_order,Qty_disp,Rate) values ('O191008','P00001','10','5','525');

insert into Salesorder_Details (Od_no,Pr_no,Qty_order,Qty_disp,Rate) values ('O191008','P07975','5','3','1050');

select * from Salesorder_Details
```

OUTPUT:

OD_NO	PR_NO	QTY_ORDER	QTY_DISP	RATE
019001	P00001	4	4	525
019001	P07965	2	1	8400
019001	P07885	2	1	5250
019002	P00001	10	0	525
046865	P07868	3	3	3150
046865	P07865	3	1	5250
046865	P00001	10	10	525
046865	P0345	4	4	1050
019003	P0345	2	2	1050
019003	P06734	1	1	12000
046866	P07965	1	0	8400
OD_NO	PR_NO	QTY_ORDER	QTY_DISP	RATE
046866	P07975	1	0	1050
0191008	P00001	10	5	525
0191008	P07975	5	3	1050

TABLE-13: DEPOSIT

Act_no	Cname	Bname	Amount	Date
100	ANIL	VRCE	1000.00	1-MAR-95
101	SUNIL	AJNI	5000.00	4-JAN-96
102	MEHUL	KAROLBAGH	3500.00	17-NOV-95
104	MADHURI	CHANDI	1200.00	17-DEC-95
105	PRMOD	M.G.ROAD	3000.00	27-MAR-96
106	SANDIP	ANDHERI	2000.00	31-MAR-96
107	SHIVANI	VIRAR	1000.00	5-SEP-95
108	KRANTI	NEHRU PLACE	5000.00	2-JUL-95
109	MINU	POWAI	7000.00	10-AUG-95

INPUT:

```
create table Deposit
```

```
(Act_no VARCHAR2(10), Cname VARCHAR2(50), Bname VARCHAR2(50), Amount NUMBER(10, 2), "Date" DATE);
```

```
insert into Deposit (Act_no, Cname, Bname, Amount, "Date")
values ('100','ANIL','VRCE', 1000.00, DATE '95-03-01');

insert into Deposit (Act_no, Cname, Bname, Amount, "Date")
values ('101','SUNIL','AJNI', 5000.00, DATE '96-01-04');

insert into Deposit (Act_no, Cname, Bname, Amount, "Date")
values ('102','MEHUL','KAROL BAGH', 3500.00, DATE '95-11-17');

insert into Deposit (Act_no, Cname, Bname, Amount, "Date")
values ('104','MADHURI','CHANDI', 1200.00, DATE '95-12-17');

insert into Deposit (Act_no, Cname, Bname, Amount, "Date")
values ('105','PRMOD','M.G.ROAD', 3000.00, DATE '96-03-27');

insert into Deposit (Act_no, Cname, Bname, Amount, "Date")
values ('106','SANDIP','ANDHERI', 2000.00, DATE '96-03-31');

insert into Deposit (Act_no, Cname, Bname, Amount, "Date")
values ('107','SHIVANI','VIRAR', 1000.00, DATE '95-09-05');

insert into Deposit (Act_no, Cname, Bname, Amount, "Date")
values ('108','KRANTI','NEHRU PLACE', 5000.00, DATE '95-07-02');

insert into Deposit (Act_no, Cname, Bname, Amount, "Date")
values ('109','MINU','POWAI', 7000.00, DATE '95-08-10');
```

OUTPUT:

ACT_NO	CNAME		
BNAME		AMOUNT	Date
100	ANIL		
VRCE		1000	01-MAR-95
101	SUNIL		
AJNI		5000	04-JAN-96
102	MEHUL		
KAROL BAGH		3500	17-NOV-95
ACT_NO	CNAME		
BNAME		AMOUNT	Date
104	MADHURI		
CHANDI		1200	17-DEC-95
105	PRMOD		
M.G.ROAD		3000	27-MAR-96
106	SANDIP		
ANDHERI		2000	31-MAR-96
ACT_NO	CNAME		
BNAME		AMOUNT	Date
107	SHIVANI		
VIRAR		1000	05-SEP-95
108	KRANTI		
NEHRU PLACE		5000	02-JUL-95

TABLE-14: BORROW

Loanno	Cname	Bname	Amount
201	ANIL	VRCE	1000.00
206	MEHUL	AJNI	5000.00
311	SUNIL	DHARAMPETH	3000.00
321	MADHURI	ANDHERI	2000.00
375	PRMOD	VIRAR	8000.00
481	KRANTI	NEHRU PLACE	3000.00

INPUT:

```
create table Borrow
```

```
(Loanno number(20), Cname varchar2(20), Bname varchar2(20), Amount number(20.00));

insert into Borrow (Loanno,Cname,Bname,Amount) values ('201','ANIL','VRCE','1000.00');

insert into Borrow (Loanno,Cname,Bname,Amount) values ('206','MEHUL','AJNI','5000.00');

insert into Borrow (Loanno,Cname,Bname,Amount) values ('311','SUNIL','DHARAMPETH','3000.00');

insert into Borrow (Loanno,Cname,Bname,Amount) values ('321','MADHURI','ANDHERI','2000.00');

insert into Borrow (Loanno,Cname,Bname,Amount) values ('375','PRMOD','VIRAR','8000.00');

insert into Borrow (Loanno,Cname,Bname,Amount) values ('481','KRANTI','NEHRU PLACE','3000.00');
```

OUTPUT:

LOANNO	CNAME	BNAME	AMOUNT
201	ANIL	VRCE	1000
206	MEHUL	AJNI	5000
311	SUNIL	DHARAMPETH	3000
321	MADHURI	ANDHERI	2000
375	PRMOD	VIRAR	8000
481	KRANTI	NEHRU PLACE	3000

TABLE-15: BRANCH

Bname	City
VRCE	NAGPUR
AJNI	NAGPUR
KARBOLBAGH	DELHI
CHANDI	DELHI

DHARAMPETH	NAGPUR
M.G.ROAD	BANGLORE
ANDHERI	BOMBAY
VIRAR	BOMBAY
NEHRU PLACE	DELHI
POWAI	BOMBAY

INPUT:

```

create table Branch

(Bname varchar2(20), City varchar2(20));

insert into Branch (Bname,City) values ('VRCE','NAGPUR');

insert into Branch (Bname,City) values ('AJNI','NAGPUR');

insert into Branch (Bname,City) values ('KAROLBAGH','DELHI');

insert into Branch (Bname,City) values ('CHANDI','DELHI');

insert into Branch (Bname,City) values ('DHARAMPETH','NAGPUR');

insert into Branch (Bname,City) values ('M.G.ROAD','BANGALORE');

insert into Branch (Bname,City) values ('ANDHERI','BOMBAY');

insert into Branch (Bname,City) values ('VIRAR','BOMBAY');

insert into Branch (Bname,City) values ('NEHRU PLACE','DELHI');

insert into Branch (Bname,City) values ('POWAI','BOMBAY');

select * from Branch

```

OUTPUT

BNAME	CITY
VRCE	NAGPUR
AJNI	NAGPUR
KAROLBAGH	DELHI
CHANDI	DELHI
DHARAMPETH	NAGPUR
M.G.ROAD	BANGALORE
ANDHERI	BOMBAY
VIRAR	BOMBAY
NEHRU PLACE	DELHI
POWAI	BOMBAY

TABLE-16: CUSTOMERS

Cname	City
ANIL	CALCUTTA
SUNIL	DELHI
MEHUL	BARODA
MANDAR	PATNA
MADHURI	NAGPUR
PRAMOD	NAGPUR
SANDIP	SURAT
SHIVANI	BOMBAY
KRANTI	BOMBAY
NAREN	BOMBAY

INPUT:

```
create table Customers
```

```
(Cname varchar2(20), City varchar2(20));
```

```
insert into Customers (Cname,City) values ('ANIL','CALCUTTA');

insert into Customers (Cname,City) values ('SUNIL','DELHI');

insert into Customers (Cname,City) values ('MEHUL','BARODA');

insert into Customers (Cname,City) values ('MANDAR','PATNA');

insert into Customers (Cname,City) values ('MADHURI','NAGPUR');

insert into Customers (Cname,City) values ('PRAMOD','NAGPUR');

insert into Customers (Cname,City) values ('SANDIP','SURAT');

insert into Customers (Cname,City) values ('SHIVANI','BOMBAY');

insert into Customers (Cname,City) values ('KRANTI','BOMBAY');

insert into Customers (Cname,City) values ('NAREN','BOMBAY');

select * from Customers
```

OUTPUT:

CNAME	CITY
ANIL	CALCUTTA
SUNIL	DELHI
MEHUL	BARODA
MANDAR	PATNA
MADHURI	NAGPUR
PRAMOD	NAGPUR
SANDIP	SURAT
SHIVANI	BOMBAY
KRANTI	BOMBAY
NAREN	BOMBAY

PRACTICAL - 3

PRACTICAL - 3

1. Describe deposit, branch.

INPUT:

describe Deposit;

Name	Null?	Type
ACT_NO		NUMBER(20)
CNAME		VARCHAR2(20)
BNAME		VARCHAR2(20)
AMOUNT		NUMBER(10, 4)
DAYDATE		DATE

INPUT:

describe Branch;

Name	Null?	Type
BNAME		VARCHAR2(20)
CITY		VARCHAR2(20)

2. Describe borrow, customers.

INPUT:

describe Borrow;

Name	Null?	Type
LOANNO		NUMBER(4)
CNAME		VARCHAR2(20)
BNAME		VARCHAR2(20)
AMOUNT		NUMBER(10, 3)

INPUT:

describe Customers;

```
SQL> describe Customers;
Name          Null?    Type
-----          -----
CNAME          VARCHAR2(20)
CITY           VARCHAR2(20)
```

3. List all data from table Deposit

INPUT:

```
select *from Deposit;
```

```
SQL> select *from Deposit;

ACT_NO CNAME          BNAME          AMOUNT DAYDATE
----- -----          -----          -----
100 Anil           Vrce            1000 01-MAR-95
101 Sunil          Anji             5000 04-MAY-96
102 Mehl           karolbagh       3500 17-NOV-95
104 Madhuri        Chandi          1200 17-DEC-95
105 Promd          M.G.Road        3000 27-MAR-96
106 Sandip          Andheri         2000 31-MAR-96
107 Shivani        Virar            1000 05-SEP-95
108 Kranthi        Nehru Place     5000 02-JUL-95
109 Minu           Powai            7000 10-AUG-95

9 rows selected.
```

4. List all data from table Borrow.

INPUT:

```
select *from Borrow;
```

```
SQL> select *from Borrow;
```

LOANNO	CNAME	BNAME	AMOUNT
201	ANIL	VRCE	1000
206	MEHUL	ANJI	5000
311	SUNIL	DHARAMPETH	3000
321	MADHURI	ANDHERI	2000
375	PRMOD	VIRAR	8000
481	KRANTI	NEHRU PLACE	3000

```
6 rows selected.
```

5. List all data from Customers.

INPUT: select *from Customers;

```
SQL> select *from Customers;
```

CNAME	CITY
ANIL	CALCUTTA
SUNIL	DELHI
MEHUL	BARODA
MANDAR	PATNA
MADHURI	NAGAPUR
PRAMOD	NAGPUR
SANDIP	SURAT
SHIVANI	BOMBAY
KRANTI	BOMBAY
NAREN	BOMBAY

```
10 rows selected.
```

6. List all data from table Branch.

INPUT:

```
select *from Branch;
```

```
SQL> select *from Branch;

BNAME          CITY
-----
VRCE           NAGPUR
ANJI           NAGAPUR
KARBOLBAGH    DELHI
CHANDI         DELHI
DHARAMPETH    NAGAPUR
M.G.ROAD       BANGLORE
ANDHERI        BOMBAY
VIRAR          BOMBAY
NEHRU PLACE   DELHI
POWAI          BOMBAY

10 rows selected.
```

7. Give account no and amount of depositors.

INPUT:

```
select Act_no, Amount from Deposit;
```

```
SQL> select Act_no,Amount from Deposit;

ACT_NO      AMOUNT
-----
100         1000
101         5000
102         3500
104         1200
105         3000
106         2000
107         1000
108         5000
109         7000

9 rows selected.
```

8. List all data from Sailors.

INPUT:

select *from Sailors;

```
SQL> select *from Sailors;

  SID SNAME          RATING      AGE
----- -----  -----
  22 Dustin           7          45
  29 Brutus          1          33
  31 Lubber          8         55.5
  32 Andy            8         25.5
  58 Rusty           10         35
  64 Horatio         7          35
  71 Zobra           10         16
  74 Horatio         9          35
  85 Art              3         25.5
  95 Bob              3         63.5

10 rows selected.
```

9. List Boat Name and its colour.

INPUT:

Select Bname and Color from Boats;

```
SQL> select Bname,Color from Boats;

BNAME          COLOR
-----  -----
Interlake      Blue
Interlake      Red
Clipper        Green
Marine         Red
```

10. List Employee name and its City.

INPUT:

Select Emp_name, City from Employee;

```
SQL> select Emp_name,City from Employee;

EMP_NAME          CITY
-----
Adam              Pittsfield
Brooks             Brooklyn
Curry              Rye
Demalo             San Deago
```

11. List all the details of Clients.

INPUT:

Select *from Client;

```
SQL> select *from Client;

CL_NO          NAME          CITY          PINCODE
-----          -----
STATE          BALDUE
-----
C00001          Ivan Bayross    Mumbai        400054
Maharashtra      15000

C00002          Mamta Muzumdar  Madras        780001
Tamil Nadu

C00003          Chhaya bankar   Mumbai        400057
Maharashtra      5000

CL_NO          NAME          CITY          PINCODE
-----          -----
STATE          BALDUE
-----
C00004          Ashwini Joshi   Bangalore     560001
Karnataka       500

C00005          Hansel Colaco   Mumbai        400060
Karnataka       1000

C00006          Deepak Sharma   Mangalore    560050
Karnataka       1000

6 rows selected.
```

12. Describe various products and its price.

INPUT:

```
select DESC, Sell_Price from Product;
```

```
SQL> select Dscr,Sell_Price from Product;

DSCR                      SELL_PRICE
-----
T-Shirts                  350
Shirts                     500
Cotton Jeans               600
jeans                     750
Trousers                   850
Pull Overs                 700
Denim Shirts                350
Lycra Tops                  300
Skirts                     450

9 rows selected.
```

13. Describe Sailor's name, age and its rating.

INPUT:

```
select Sname, Age, Rating from Sailors;
```

```
SQL> select Sname,Age,Rating from Sailors;

SNAME                      AGE      RATING
-----
Dustin                     45       7
Brutus                     33       1
Lubber                     55.5     8
Andy                       25.5     8
Rusty                      35       10
Horatio                    35       7
Zobra                      16       10
Horatio                    35       9
Art                        25.5     3
Bob                        63.5     3

10 rows selected.
```

14.

Describe the Managers of various employees.

INPUT:

```
select *from Manager;
```

```
SQL> select *from Manager;

EMP_NAME          MAN_NAME
-----
Adam              Smith
Brooks             Jones
Curry              Hayes
```

15. Describe the Details of Loan for Customers.

INPUT:

```
Select *from Borrow;
```

```
SQL> select *from Borrow;

LOANNO CNAME           BNAME      AMOUNT
-----  -----
    201 ANIL             VRCE        1000
    206 MEHUL            ANJI        5000
    311 SUNIL            DHARAMPETH 3000
    321 MADHURI          ANDHERI    2000
    375 PRMOD            VIRAR       8000
    481 KRANTI           NEHRU PLACE 3000

6 rows selected.
```

PRACTICAL - 4

PRACTICAL - 4

Simple Queries:

- Give name of depositors having amount greater than 4000.
- List the employees having salary less than 22000.
- List the sailors having age more than 25.
- List the boats travelling on 10-oct-98
- List the details of boat "Interlake".
- List the details of the red colored boat.
- List the details of clients whose city is Mumbai
- List Client Name, due balance and city of the clients having balance greater than 1500.
- Describe the details of products having selling price less than 500.
- List the products for which quantity ordered is less than 120 and cost price is greater than 250.
- Display account details having amount greater 2200.
- Display all the customers staying in Nagpur
- Display the names of sailors having rating greater than 7
- Display the orders made in the month of June
- List all the accounts created in the month of March

2203031260150

DBMS LAB (303105204)

QUERY:

- 1) Give name of depositors having amount greater than 4000.

INPUT :-

Select cname from deposit where amount <4000;

```
SQL> select cname from deposit where amount>5000;  
  
CNAME  
-----  
MINU
```

QUERY:

- 2) List the employees having salary less than 22000.

INPUT :-

Select Emp_name from work where salary >22000;

```
SQL> select Emp_name from work where salary>22000;  
  
EMP_NAME  
-----  
Brooks
```

QUERY:

- 3) List the sailors having age more than 25.

INPUT :-

Select Sname from sailors where age>25;

```
SQL> select Sname from sailors where age>25;

SNAME
-----
Dustin
Brutus
Lubber
Andy
Rusty
Horatio
Horatio
Bob

8 rows selected.
```

QUERY:

- 4) List the boats travelling on 10-oct-98

INPUT :-

Select Bid from reserves where day='10-oct-98';

```
SQL> select Bid from reserves where day='10-oct-98';

BID
-----
101
102
```

QUERY:

- 5) List the details of boat “Interlake”.

INPUT :-

Select *from boats where bname='Interlake';

```
SQL> select * from boats where bname='Interlake';

      BID  BNAME          COLOR
-----  -----  -----
      101 Interlake      Blue
      102 Interlake      Red
```

QUERY:

6) List the details of the red colored boat.

INPUT :-

Select *from boats where color='red';

```
SQL> select * from boats where color='Red' ;
```

BID	BNAME	COLOR
102	Interlake	Red
104	Marine	Red

QUERY:

7) List the details of clients whose city is Mumbai

INPUT :-

Select *from Client where City='Mumbai';

```
SQL> select * from Client where City='Mumbai' ;
```

CL_NO	NAME	CITY
PINCODE	STATE	BALDUE
C00001	Ivan Bayross	Mumbai
400054	Maharashtra	15000
C00003	Chhaya Bankar	Mumbai
400057	Maharashtra	5000
C00005	Hansel Colaco	Mumbai
400060	Maharashtra	2000

QUERY:

8) List Client Name, due balance and city of the clients having balance greater than 1500.

INPUT :-

Select name, baldue, city from Client where
baldue>1500;

```
SQL> select name,baldue,city from Client where baldue > 1500;  
NAME          BALDUE CITY  
-----  
Ivan Bayross      15000 Mumbai  
Chhaya Bankar      5000 Mumbai  
Hansel Colaco      2000 Mumbai
```

QUERY:

9) Describe the details of products having selling price less than 500.

INPUT :-

Select *from Product where sell_price<500;

```
SQL> select * from Product where Sell_Price < 500;

PR_NO          DSCR           PROFIT UNIT
-----  -----
REORDER_LVL  SELL_PRICE COST_PRICE      QFD
-----  -----
P00001        T-Shirts       5 Piece
    200        50     350      250
P0345         Shirts        6 Piece
    150        50     500      350
P06734        Cotton Jeans 5 Piece
    100        20     600      450

PR_NO          DSCR           PROFIT UNIT
-----  -----
REORDER_LVL  SELL_PRICE COST_PRICE      QFD
-----  -----
P07865         Jeans        5 Piece
    100        20     750      500
P07868        Trousers       2 Piece
    150        50     850      550
P07885        Pull Overs   3 Piece
    80         30     700      450

PR_NO          DSCR           PROFIT UNIT
-----  -----
REORDER_LVL  SELL_PRICE COST_PRICE      QFD
-----  -----
P07965        Denim Shirts 4 Piece
    100        40     350      250
P07975        Lycra Tops   5 Piece
    70         30     300      175
P08865        Skirts        5 Piece
    75         30     450      300

9 rows selected.
```

QUERY:

- 10) List the products for which quantity ordered is less than 120 and cost price is greater than 250.

INPUT :-

Select *from Product where cost_Price>250;

```
SQL> select * from Product where Cost_Price >250;
PR_NO          DSCR          PROFIT UNIT
-----          -----          -----
                                         REORDER_LVL SELL_PRICE COST_PRICE QTY_(NUMBER)
P00001          T-Shirts      5 Piece
    200          50     350       250
P0345           Shirts        6 Piece
    150          50     500       350
P06734          Cotton Jeans 5 Piece
    100          20     600       450
PR_NO          DSCR          PROFIT UNIT
-----          -----          -----
                                         REORDER_LVL SELL_PRICE COST_PRICE QTY_(NUMBER)
P07865           Jeans        5 Piece
    100          20     750       500
P07868          Trousers      2 Piece
    150          50     850       550
P07885          Pull Overs   3 Piece
    80           30     700       450
PR_NO          DSCR          PROFIT UNIT
-----          -----          -----
                                         REORDER_LVL SELL_PRICE COST_PRICE QTY_(NUMBER)
P07965          Denim Shirts 4 Piece
    100          40     350       250
P07975          Lycra Tops   5 Piece
    70           30     300       175
P08865          Skirts        5 Piece
    75           30     450       300
9 rows selected.
```

QUERY:

- 11) Display account details having amount greater 2200.

INPUT :-

Select *from Deposit where Amount>2200;

```
SQL> select * from Deposit where Amount>2200;
ACT_NO CNAME      BNAME          AMOUNT Date
----- -----          -----
101  SUNIL       AJNI           5000 04-JAN-96
102  MEHUL       KAROLBAGH     3500 17-NOV-95
105  PRMOD       M.G.ROAD      3000 27-MAR-96
108  KRANTI      NEHRU PLACE   5000 02-JUL-95
109  MINU        POWAI          7000 10-AUG-95
```

QUERY:

- 12) Display all the customers staying in Nagpur

INPUT :-

Select *from Customers where city>'Nagpur';

```
SQL> select * from Customers where City > 'Nagpur';
```

CNAME	CITY
MANDAR	PATNA
SANDIP	SURAT

QUERY:

- 13) Display the names of sailors having rating greater than 7

INPUT :-

Select Sname from Sailors where Rating >7;

```
SQL> select Sname from Sailors where Rating > 7;
```

SNAME
Lubber
Andy
Rusty
Zebra
Horatio

QUERY:

- 14) Display the orders made in the month of June

INPUT :-

Select *from Salesorder_details where qty_disp>3;

```
SQL> select * from Salesorder_details where qty_disp > 3;
```

OD_NO	PR_NO	QTY_ORDER	QTY_DISP	RATE
019001	P00001	4	4	525
046865	P00001	10	10	525
046865	P0345	4	4	1050
019008	P00001	10	5	525

QUERY:

- 15) List all the accounts created in the month of March

INPUT :-

Select act_no from Deposit where Date_D BETWEEN '27-MAR-96' AND '31-MAR-96';

```
SQL> select act_no from Deposit WHERE Date_D BETWEEN '27-MAR-96' AND '31-MAR-96';

ACT_NO
-----
105
106
```

PRACTICAL - 5

PRACTICAL - 5

"Like" Queries:

Display all customers whose name start with 'M'.

Display all the customers whose name ends with 'L'.

Display all loan details whose branch starts with 'A'.

Display the details of sailors whose name is minimum 6 characters long.

Display the details of Employees whose address starts with 'S'.

List the details of the boat ending with 'e'.

List the details of clients having 'h' as a 3rd character in his/her name.

List Client Name, due balance and city whose pin code starts with 4.

List all customers whose city contains 'a' as second character.

List client names and city whose state has 'a' as fourth or fifth character

QUERY:

(1) Display all customers whose name start with 'M'.

INPUT :-

Select *from Customers where Cname like 'M%';

```
SQL> select * from Customers where Cname like 'M%';

CNAME          CITY
-----
MEHUL          BARODA
MANDAR         PATNA
MADHURI        NAGPUR
```

QUERY:

(2) Display all the customers whose name ends with 'L'.

INPUT :-

Select *from Customers where Cname like '%L';

```
SQL> select * from Customers where Cname like '%L';

CNAME          CITY
-----
ANIL           CALCUTTA
SUNIL          DELHI
MEHUL          BARODA
```

QUERY:

(3) Display all loan details whose branch starts with 'A'.

INPUT :-

Select *from Customers where Cname like 'A%';

```
SQL> select * from Branch where Bname like 'A%';
```

BNAME	CITY
AJNI	NAGPUR
ANDHERI	BOMBAY

QUERY:

(4) Display the details of sailors whose name is minimum 6 characters long.

INPUT :-

```
Select *from Sailors where Sname like '-----';
```

```
SQL> select * from Sailors where Sname like '-----';
```

SID	SNAME	RATING	AGE
22	Dustin	7	45
29	Brutus	1	33
31	Lubber	8	55.5

QUERY:

(5) Display the details of Employees whose address starts with 'S'.

INPUT :-

```
Select *from Employee where Street like 'S%';
```

```
SQL> select * from Employee where Street like 'S%';
```

EMP_NAME	STREET	CITY
Adam	Spring	Pittsfield
Brooks	Senator	Brooklyn
Demaldo	SunShine	San Deago

QUERY:

(6) List the details of the boat ending with 'e'.

INPUT :-

Select *from boats where bname like '%e';

```
SQL> select * from boats where bname like '%e';
```

BID	BNAME	COLOR
101	Interlake	Blue
102	Interlake	Red
104	Marine	Red

QUERY:

(7) List the details of clients having 'h' as a 3rd character in his/her name.

INPUT :-

Select *from Client where Namelike '__h%';

```
SQL> select * from Client where Name like '__h%';
```

CL_NO	NAME	CITY
PINCODE	STATE	BALDUE
C00003	Chhaya Bankar	Mumbai
400057	Maharashtra	5000
C00004	Ashwini Joshi	Bangalore
560001	Karnataka	500

QUERY:

(8) List Client Name, due balance and city whose pin code starts with 4.

INPUT :-

Select name,baldue,city from Client Where pincode like '4%';

```
SQL> select name, baldue,city from Client where pincode like '4%';
```

NAME	BALDUE	CITY
Ivan Bayross	15000	Mumbai
Chhaya Bankar	5000	Mumbai
Hansel Colaco	2000	Mumbai

QUERY:

(9) List all customers whose city contains 'a' as second character.

INPUT :-

Select *from Customers where City like '_A%';

```
SQL> select * from Customers where City like '_A%';

CNAME          CITY
-----
ANIL           CALCUTTA
MEHUL          BARODA
MANDAR         PATNA
MADHURI        NAGPUR
PRAMOD         NAGPUR
```

QUERY:

- (10) List client names and city whose state has 'a' as fourth or fifth character.

INPUT :-

Select name , city from Client from Client where State like '____a%';

```
SQL> select name,city from Client where State like '____a%';
```

NAME	CITY
Ashwini Joshi	Bangalore
Deepak Shrma	Mangalore

```
SQL> select name,city from Client where State like '___a%';
```

NAME	CITY
Ivan Bayross	Mumbai
Chhaya Bankar	Mumbai
Hansel Colaco	Mumbai

PRACTICAL - 6

PRACTICAL - 6

QUERY:

1. List total deposit from deposit.

INPUT:-

Select sum (AMOUNT) from Deposit;

```
SQL> select sum(AMOUNT) from Deposit;  
SUM(AMOUNT)  
-----  
28700
```

QUERY:

2. Give maximum loan given to the customer.

INPUT:-

Select max (AMOUNT)as maxloan from Borrow;

```
SQL> select max(AMOUNT) as maxloan from Borrow;  
MAXLOAN  
-----  
8000
```

QUERY:

- 3.Describe the average age of all the sailors.

INPUT:-

Select avg (AGE) as average_AGE from Sailors ;

```
SQL> select avg(AGE) as average_AGE from Sailors;  
  
AVERAGE_AGE  
-----  
36.9
```

QUERY:

4.Count total number of customers (5) Count total number of customer's cities.

INPUT:-

Select count(CNAME) as total_Customers from Customers ;

```
SQL> select count(CNAME) as total_Customers from Customers;  
  
TOTAL_CUSTOMERS  
-----  
10
```

QUERY:

5.Display total target for the salesman.

INPUT:-

Select count(CITY) as total_CITY from Customers ;

```
SQL> select count(CITY) as total_CITY from Customers;  
  
TOTAL_CITY  
-----  
10
```

QUERY:

6.Update the salary of the employee having 10000 to 11500 .

INPUT:-

Select *from Work ;

```
SQL> select * from Work;
```

EMP_NAME	CMP_NAME	SALARY
Adam	FBC	20000
Brooks	MBC	30000
Curry	SBC	10000

```
SQL> update Work set Work.SALARY =11500 where Work.SALARY=10000;
```

```
1 row updated.
```

```
SQL> select * from Work;
```

EMP_NAME	CMP_NAME	SALARY
Adam	FBC	20000
Brooks	MBC	30000
Curry	SBC	11500

QUERY:

7.Update the city of client from Bangalore to Bengaluru.

INPUT:-

Update Client set CITY= ‘Benguluru’ where CITY = ‘Banglore’;

```
SQL> update Client set CITY='Bengaluru' where CITY='Bangalore';

1 row updated.

SQL> select * from Client;

CL_NO          NAME           CITY          PINCODE
-----          -----          -----          -----
STATE          BALDUE
-----          -----
C00001          Ivan Bayross   Mumbai        400054
Maharashtra      15000

C00002          Manmta Muzumbar  Madras        780001
Tamil Nadu       100

C00003          Chhaya Bankar   Mumbai        400057
Maharashtra      5000

CL_NO          NAME           CITY          PINCODE
-----          -----          -----          -----
STATE          BALDUE
-----          -----
C00004          Ashwini Joshi  Bengaluru    560001
Karnataka       500

C00005          Hansel Colaco  Mumbai        400060
Maharashtra      2000

C00006          Deepak Sharma   Mangalore   560050
Karnataka       1000

6 rows selected.
```

QUERY:

8.Give the 15% hike in the salary of all the Employees. Rename that column to “New Salary”.

INPUT:-

Update Work set SALARY =SALARY+(SALARY*15/100);

```
SQL> update Work set SALARY=SALARY+(SALARY*15/100);
```

```
3 rows updated.
```

```
SQL> select * from Work;
```

EMP_NAME	CMP_NAME	SALARY
Adam	FBC	23000
Brooks	MBC	34500
Curry	SBC	13225

PRACTICAL - 7

PRACTICAL - 7

1)Find the salary of Adam.

INPUT:-

```
select New_Salary from Work where Emp_name='Adam';
```

NEW_SALARY
----- 23000

2)Find the city where Brooks work.

INPUT:-

```
select City from Employee where Emp_name='Brooks';
```

CITY
----- Brooklyn

3)Display the sailor's details whose boat is booked for 9th May,98.

INPUT:-

```
select S.Sid,S.Sname,S.Rating,S.Age from Sailors S,Reserves R where S.Sid=R.Sid  
and R.Day='9-may-98';
```

SID	SNAME	RATING	AGE
----- 64	Horatio	7	35.0

4)Display the day of ride and sailor name for boat 103.

INPUT:-

```
select R.Day,S.Sname from Reserves R join Sailors S on S.Sid=R.Sid where R.Bid=103;
```

DAY	SNAME
10-aug-98	Dustin
11-jun-98	Lubber
9-aug-98	Horatio

5)Display the sailor name and its age for

INPUT:-

```
select S.name,S.Age from Sailors S join Reserves R on R.Sid=S.Sid join Boats B on R.Bid=B.Bid
where B.Color='Red' or B.Bid='101';
```

SNAME	AGE
Dustin	45.0
Dustin	45.0
Dustin	45.0
Lubber	55.5
Lubber	55.5
Horatio	35.0
Horatio	35.0

6)Display the sailor details whose boat is never booked

INPUT:-

```
select S.Sid,S.Sname,S.Rating,S.Age from Sailors S left join Reserves R on R.Sid=S.Sid
where R.Sid is NULL;
```

SID	SNAME	RATING	AGE
58	Rusty	10	35.0
85	Art	3	25.5
71	Zobra	10	16.0
29	Brutus	1	33.0
95	Bob	3	63.5
32	Andy	8	25.5

7)Display all sailor name that has Red or Green Boat.

INPUT:-

```

select S.Sname from Sailors S
join Reserves R on S.Sid=R.Sid
join Boats B on R.Bid=B.Bid
where Color='Red' or Color='Green';

```

SNAME
Dustin
Dustin
Dustin
Lubber
Lubber
Lubber
Horatio
Horatio

8)Display the sailor details and boat details and who has Interlake boat.

INPUT:-

```

select S.* ,B.* from Sailors S join Reserves R on S.Sid=R.Sid join Boats B on B.Bid=R.Bid where
B.Bname='Interlake'

```

SID	SNAME	RATING	AGE	BID
BNAME	COLOR			
22	Dustin	7	45.0	101
Interlake	Blue			
22	Dustin	7	45.0	102
Interlake	Red			
31	Lubber	8	55.5	102
Interlake	Red			

SID	SNAME	RATING	AGE	BID
BNAME	COLOR			
64	Horatio	7	35.0	101
Interlake	Blue			
64	Horatio	7	35.0	102
Interlake	Red			

9)Display sailor's rating with boat details or the trip on 10th October,98

INPUT:-

```

select S.Rating,B.* from Sailors S join Reserves R on S.Sid=R.Sid join Boats B on B.Bid=R.Bid

```

where R.Day='10-oct-98';

RATING	BID	BNAME	COLOR
7	101	Interlake	Blue
7	102	Interlake	Red

10)Display the sailor's id and name whose age is more than 42 or who has Blue coloured boat.

INPUT:-

```
select S.Sid,S.Sname from Sailors S join Reserves R on S.Sid=R.Sid join Boats B on B.Bid=R.Bid
where S.Age>45 or B.Color='Blue';
```

SID	SNAME
22	Dustin
31	Lubber
31	Lubber
31	Lubber
64	Horatio

11)List product whose selling price is more than 500.

INPUT:select S.Sname,S.Rating from Sailors S join Reserves R on S.Sid=R.Sid
join Boats B on B.Bid=R.Bid where B.Bname='Clipper';

SNAME	RATING
Dustin	7
Lubber	8
Horatio	9

12)List products whose selling price is more than 500 and less than equal to 750.

INPUT:

```
select Dscr from Product where Sell_Price>500 and Sell_Price<=750;
```

DSCR
Cotton Jeans
Jeans
Pull Overs

13)Describe the second highest salary of an employee.

INPUT:-

```
select MAX(New_SALARY) AS "Second_highest_Salary" from Work
    where New_SALARY < (SELECT MAX(New_SALARY) from Work);
```

Second_highest_Salary

26450

14)Display the date of travel and sailor's name whose age is between 35 and 65.

INPUT:-

```
select R.Day,S.Sname from Sailors S join Reserves R on S.Sid=R.Sid where S.Age between 35
and 65;
```

DAY	SNAME
-----	-----
10-oct-98	Dustin
10-oct-98	Dustin
10-aug-98	Dustin
10-jul-98	Dustin
11-oct-98	Lubber
11-jun-98	Lubber
11-dec-98	Lubber
9-may-98	Horatio
9-aug-98	Horatio
9-aug-98	Horatio

15)List all the employees working for “FBC”

INPUT:-

```
select Emp_name from Work Where Cmp_name='FBC';
```

EMP_NAME

Adam

Practical 8

Practical 8

1)Display all the employee name and the city where they work.

INPUT:-

```
select W.Emp_name,C.City from Work W join Company C on C.Cmp_name=W.Cmp_name;
```

EMP_NAME	CITY
Adam	Pittsfield
Brooks	Brooklyn
Carry	Rye

2)Display the employee name and company's name having salary more than 15000

INPUT:-

```
select Emp_name,Cmp_name from Work where New_Salary>15000;
```

EMP_NAME	CMP_NAME
Adam	FBC
Brooks	MBC

Q3)Find the average rating and age of all sailors.

INPUT:-

```
select avg(Rating),avg(Age) from Sailors;
```

AVG(RATING)	AVG(AGE)
6.6	36.9

4)List various products available.

INPUT:-

```
select Dscr from Product;
```

DSCR
T-Shirts
Shirts
Cotton Jeans
Jeans
Trousers
Pull Overs
Denim Shirts
Lycra Tops
Skirts

5)Display the names of salesman who have salary more than 2850.

INPUT:

```
select Name from Salesman where Amt>2850;
```

NAME
Aman
Omkar
Raj
Ashish

6)Change the cost price of Trousers to 950.

INPUT:-

```
update Product set Cost_Price=950 where Dscr='Trousers';
```

PR_NO	DSCR	PROFIT	UNIT	QTY	RECODER_LVI	SELL_PRICE	COST_PRICE
P00001	T-Shirts	5	Piece	200	50	350	250
P0345	Shirts	6	Piece	150	50	500	350
P06734	Cotton Jeans	5	Piece	100	20	600	450
P07865	Jeans	5	Piece	100	20	750	500
P07868	Trousers	2	Piece	150	50	850	950
P07885	Pull Overs	3	Piece	80	30	700	450
P07965	Denim Shirts	4	Piece	100	40	350	250
P07975	Lycra Tops	5	Piece	70	30	300	175
P08865	Skirts	5	Piece	75	30	450	300

7)List all the clients having “a” as a second character in their name..

INPUT:- select Name from Client where Name like '_a%';

NAME

Mamta Muzumdar
Hansel Colaco

8)List all the products whose QtyOnHand is less than ReorderLvl.

INPUT:-

select Dscr from Product where 'Qty'<'Reorder_Lvl';

DSCR

T-Shirts
Shirts
Cotton Jeans
Jeans
Trousers
Pull Overs
Denim Shirts
Lycra Tops
Skirts

9)Print the description and total qty sold for each product.

INPUT:

select Dscr,Qty from Product;

DSCR	QTY
----- -----	
T-Shirts	200
Shirts	150
Cotton Jeans	100
Jeans	100
Trousers	150
Pull Overs	80
Denim Shirts	100
Lycra Tops	70
Skirts	75

10)Find out all the products which have sold to “Ivan Bayross”.

INPUT:-

```
select P.Dscr from Product P join Salesorder_Details SD on P.Pr_no=SD.Pr_no
join Salesorder SO on SD.OD_no=SO.Od_no join Client C on SO.Cl_no=C.Cl_no
where C.Name='Ivan Bayross';
```

DSCR

T-Shirts
Denim Shirts
Pull Overs
Shirts
Cotton Jeans

11)Find the names of all clients who have purchased Trousers.

INPUT:-

```
select C.Name from Client C join Salesorder SO on SO.Cl_no=C.Cl_no
join Salesorder_details SD on SD.Od_no=SO.Od_no where Pr_no='P07868';
```

NAME

Chhaya Bankar

12)Find the products and their quantities for the order placed by client C00001 and C00002.

INPUT:-

```
select P.Dscr,SD.Qty_order from Client C join Salesorder SO on C.Cl_no=SO.Cl_no join
Salesorder_Details SD on SO.Od_no=SD.OD_no
join Product P on SD.Pr_no=P.Pr_no where C.Cl_no='C00001' or C.Cl_no='C00002';
```

DSCR	QTY_ORDER
-----	-----
T-Shirts	4
T-Shirts	10
Shirts	2
Cotton Jeans	1
Pull Overs	2
Denim Shirts	2

13)List the client details who place order no. O19001.

INPUT:-

```
select C.* from Client join Salesorder SO on C.Cl_no=SO.Cl_no where SO.Od_no='O19001';
```

CL_NO	NAME	CITY	PINCODE	STATE	BALDUE
C00001	Ivan Bayross	Mumbai	400054	Maharashtra	15000

Q14)List the name of clients who have placed orders worth Rs. 10000 or more.

INPUT:-

```
select distinct C.Name from Client C,Salesorder S,Salesorder_Details SD
```

```
where C.Cl_no=S.Cl_no and S.Od_no=SD.Od_no and (SD.Qty_order*SD.Rate)>10000;
```

NAME
Chhaya Bankar
Ivan Bayross

15)Find the total of Qty ordered for each order

INPUT:-

```
select Od_no,sum(Qty_Order) from Salesorder_Details group by Od_no;
```

OD_NO	SUM(QTY_ORDER)
046866	2
019002	10
019001	8
046865	20
019003	3
019008	15

Practical-9

Practical-9

1)Find the average rate for each order.

INPUT:-

```
select Od_no,Avg(Rate)"AVGRate" from Salesorder_Details group by Od_no;
```

OD_NO	AVGRate
046866	4725
019002	525
019001	4725
046865	2493.75
019003	6525
019008	787.5

2)Give the loan details of all the customers.

INPUT:-

```
select * from Borrow;
```

LOANNO	CNAME	BNAME	AMOUNT
201	ANIL	VRCE	1000
206	MEHUL	AJNI	5000
311	SUNIL	DHARAMPETH	3000
321	MADHURI	ANDHERI	2000
375	PRAMOD	VIRAR	8000
481	KRANTI	NEHRU PLACE	3000

3)List the customer name having loan account in the same branch they live in

INPUT:-

```
select C.Cname from Customers C,Branch B,Deposit D
where D.Bname=B.Bname and D.Cname=C.Cname and C.City=B.City;
```

CNAME

ANIL
SHIVANI

4)Provide the loan details of all the customers who have opened their accounts after August '95;

INPUT:-

```
select D.Cname,C.City,D.Bname,D.Amount from Deposit D ,Customers C
where C.Cname=D.Cname and D_dat>'10-AUG-95';
```

CNAME	CITY	BNAME	AMOUNT
SUNIL	DELHI	AJNI	5000
MEHUL	BARODA	KAROLBAGH	3500
MADHURI	NAGPUR	CHANDI	1200
SANDIP	SURAT	ANDHERI	2000
SHIVANI	BOMBAY	VIRAR	1000

5)List the order information for client C00001 and C00002

INPUT:-

```
select O.* from Salesorder S inner join Salesorder_Details O on S.Od_no=O.Od_no
where S.Cl_no='C00001' or S.Cl_no='C00002';
```

OD_NO	PR_NO	QTY_ORDER	QTY_DISP	RATE
019001	P00001	4	4	525
019001	P07965	2	1	8400
019001	P07885	2	1	5250
019002	P00001	10	0	525
019003	P0345	2	2	1050
019003	P06734	1	1	12000

6)List all the information for the orders placed in the month of June.

INPUT:-

select C. Name from client C, Salesorder S where S.Cl_no=C.Cl_no and O_date<'01-JUN-04';

```
SQL> select C.Name from client C,Salesorder S where S.Cl_no=C.Cl_no and O_date<'01-JUN-04';
NAME
-----
Ivan Bayross
Chhaya Bankar
Ashwini Joshi
Hansel Colaco
```

7)List the details of clients who do not stay in Maharashtra.

INPUT:-

select * from Client where not State='Maharashtra';

CL_NO	NAME	CITY	PINCODE	STATE	BALDUE
C00002	Mamta Muzumdar	Madras	780001	Tamil Nadu	100
C00004	Ashwini Joshi	Bengaluru	560001	Karnataka	500
C00006	Deepak Sharma	Mangalore	560050	Karnataka	1000

8)Determine the maximum and minimum product price. Rename the output as “Max_Price” and “Min_Price”.

INPUT:-

select min(Cost_Price) Min_Price,max(Cost_Price) Max_Price from Product;

MIN_PRICE	MAX_PRICE
175	550

9)Count the number of products having price less than or equal to 500.

INPUT:-

select count(*) from Product where Cost_Price<=500;

COUNT(*)
8

10)List the order number and the day on which client placed an order.

INPUT:-

```
select Od_no,O_dat from Salesorder;
```

OD_NO	O_DAT
019001	12-JUN-04
019002	25-JUN-04
019003	03-APR-04
019008	24-MAY-04
046865	18-FEB-04
046866	20-MAY-04

11)List the month and the date on which client placed an order.

INPUT:-

```
select od_no,extract(Month from D_dat) Month, extract(Day from D_dat) Day from Salesorder;
```

OD_NO	MONTH	DAY
019001	7	20
019002	6	27
046865	2	20
019003	4	7
046866	5	22
019008	7	26

12)List the date,25 days after today's date.

INPUT:-

```
select SYSDATE+25 Day_After from Dual;
```

DAY_AFTER
23-SEP-23

13)Find the total of all the billed orders in the month of June.

INPUT:-

```
select count(Od_no) from Salesorder where O_dat like '%JUN%';
```

COUNT(OD_NO)
2

14) List the products and orders from customers who have ordered less than 5 units of “Pull Overs”.

INPUT:-

```
select O.Od_no,P.Dscr,C.Name from Client C,Product P,Salesorder S,Salesorder_Details O
where C.Cl_no=S.Cl_no and P.Pr_no=O.Pr_no and S.Od_no=O.Od_no and O.Qty_order < 5 and
P.Dscr='Pull Overs';
```

OD_NO	DSCR	NAME
019001	Pull Overs	Ivan Bayross
046865	Pull Overs	Chhaya Bankar

15) Find the list of products and orders placed by “Ivan Bayross” and “Mamta Muzumdar”.

INPUT:-

```
select distinct O.Od_no,O.Pr_no,P.Dscr,C.Name from Client C inner join Salesorder S inner join
Product P inner join Salesorder_Details O on P.Pr_no=O.Pr_no on O.Od_no=S.Od_no on
C.Cl_no=S.Cl_no where C.Name='Ivan Bayross' or C.Name='Mamta Muzumdar';
```

OD_NO	PR_NO	DSCR	NAME
019003	P06734	Cotton Jeans	Ivan Bayross
019003	P0345	Shirts	Ivan Bayross
019002	P00001	T-Shirts	Mamta Muzumdar
019001	P07965	Denim Shirts	Ivan Bayross
019001	P07885	Pull Overs	Ivan Bayross
019001	P00001	T-Shirts	Ivan Bayross

16) List the clients who placed order before June’04.

INPUT:-

```
select C.Name from Client C,Salesorder S where S.Cl_no=C.Cl_no and O_dat<'01-JUN-04';
```

SQL> select C.Name from client C,Salesorder S where S.Cl_no=C.Cl_no and O_date<'01-JUN-04';
NAME

Ivan Bayross
Chhaya Bankar
Ashwini Joshi
Hansel Colaco

17) List all the clients who stays in “Bengaluru” or “Mangalore”.

INPUT:-

```
select Name from Client where City='Bengaluru' or City='Mangalore';
```

NAME
Ashwini Joshi
Deepak Sharma

Practical-10

Practical-10

- (1) Write a PL/SQL Block to Add 2 Numbers ?
- (2) Write a PL/SQL Block to find Area of Rectangle, Triangle and Square ?
- (3) Write a PL/SQL Block to find Maximum of 3 numbers ?
- (4) Write a PL/SQL Block to print sum of N Numbers using For Loop ?
- (5) Write a PL/SQL Block to generate Fibonacci series of N numbers ?

(1) Write a PL/SQL Block to Add 2 Number...?

INPUT:-

```

1 v DECLARE
2      -- Declare variables to store the numbers
3      num1 NUMBER := 10;
4      num2 NUMBER := 20;
5
6      -- Declare a variable to store the result
7      result NUMBER;
8 v BEGIN
9      -- Add the numbers and store the result in the 'result' variable
10     result := num1 + num2;
11
12     -- Display the result
13     DBMS_OUTPUT.PUT_LINE('The sum of ' || num1 || ' and ' || num2 || ' is: ' || result);
14 END;
15 /

```

Output:-

Statement processed.
The sum of 10 and 20 is: 30

- (2) Write a PL/SQL Block to find Area of Rectangle, Triangle and Square ?

INPUT:-

-- PL/SQL Block to Calculate Area of Rectangle, Triangle, and Square

```

SET SERVEROUTPUT ON;
-- Declare variables to store dimensions
DECLARE
    length_rect NUMBER := 5; -- Length of the rectangle
    width_rect NUMBER := 3; -- Width of the rectangle

    base_tri  NUMBER := 4; -- Base of the triangle
    height_tri NUMBER := 6; -- Height of the triangle

    side_square NUMBER := 2; -- Side of the square

    area_rect  NUMBER; -- Area of the rectangle
    area_tri   NUMBER; -- Area of the triangle
    area_square NUMBER; -- Area of the square
BEGIN
    -- Calculate area of the rectangle
    area_rect := length_rect * width_rect;

    -- Calculate area of the triangle
    area_tri := 0.5 * base_tri * height_tri;

    -- Calculate area of the square
    area_square := side_square * side_square;

    -- Display the results
    DBMS_OUTPUT.PUT_LINE('Area of Rectangle: ' || area_rect);
    DBMS_OUTPUT.PUT_LINE('Area of Triangle: ' || area_tri);
    DBMS_OUTPUT.PUT_LINE('Area of Square: ' || area_square);
END;
/

```

OUTPUT:-

```

Statement processed.
Area of Rectangle: 15
Area of Triangle: 12
Area of Square: 4

```

3) Write a PL/SQL Block to find Maximum of 3 numbers**INPUT:-**

DECLARE

--a assigning with 46

a NUMBER := 46;

--b assigning with 67

```
b NUMBER := 67;  
--c assigning with 21  
c NUMBER := 21;  
BEGIN  
    IF a > b  
        AND a > c THEN  
            dbms_output.Put_line('Greatest number is ' ||a);  
        ELSIF b > a  
            AND b > c THEN  
                --if b is greater then print b  
                dbms_output.Put_line('Greatest number is ' ||b);  
            ELSE  
                --if c is greater then print c  
                dbms_output.Put_line('Greatest number is ' ||c);  
            END IF;  
    END;
```

OUTPUT:-

```
Statement processed.  
Greatest number is 67
```

4) Write a PL/SQL Block to print sum of N Numbers using For Loop.**INPUT:-**

```
--declaration section  
DECLARE  
x NUMBER;  
n NUMBER;  
i NUMBER;  
  
--function for finding sum  
  
FUNCTION Findmax(n IN NUMBER)
```

```

    RETURN NUMBER
IS
    sums NUMBER := 0;
BEGIN

    --for loop for n times iteration
    FOR i IN 1..n
    LOOP
        sums := sums + i*(i+1)/2;
    END LOOP;
    RETURN sums;
END;
BEGIN

    --driver code
    n := 4;
    x := findmax(n);
    dbms_output.Put_line('Sum: '
    || x);
END;

--end of Program

```

OUTPUT:-

```

Statement processed.
Sum: 20

```

(5) Write a PL/SQL Block to generate Fibonacci series of N numbers ?

```

declare
    -- declare variable first = 0,
    -- second = 1 and temp of datatype number
    first number := 0;
    second number := 1;
    temp number;

    n number := 5;
    i number;

begin
    dbms_output.put_line('Series:');
    --print first two term first and second

```

```
dbms_output.put_line(first);
dbms_output.put_line(second);

-- loop i = 2 to n
  for i in 2..n
    loop
      temp:=first+second;

      first := second;
      second := temp;

      --print terms of fibonacci series
      dbms_output.put_line(temp);
    end loop;

  end;
--Program End
```

OUTPUT:-

```
Statement processed.
Series:
0
1
1
2
3
5
```