

Ganpat University
Faculty of Engineering & Technology
Computer Science & Engineering

Practical 2

Name:- Dwij Vatsal Desai

Sem:- 3

Sub:- DBMS

Enrollment No.:- 23162121027

A) Retrieving records from table

1) Find out the names of all clients.

Query: select name from client_master;

```
41  -- 1. Find out the names of all clients.
42 • select name from client_master;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	name			
▶	Ivan			
	Vandana			
	Pramada			
	Basu			
	Ravi			
	Rukmani			

Image:

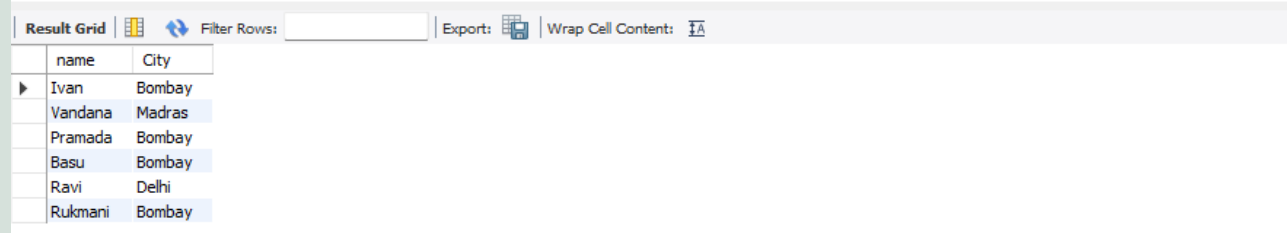
2) Retrieve the list of names and the cities of all the clients.

Query:

```
select name,City from client_master;
```

Image:

```
44  -- 2. Retrieve the list of names and the cities of all the clients.
45 • select name,City from client_master;
```



The screenshot shows a database interface with a 'Result Grid' tab. It displays the results of the SQL query 'select name,City from client_master;'. The table has two columns: 'name' and 'City'. The data rows are: Ivan (Bombay), Vandana (Madras), Pramada (Bombay), Basu (Bombay), Ravi (Delhi), and Rukmani (Bombay).

name	City
Ivan	Bombay
Vandana	Madras
Pramada	Bombay
Basu	Bombay
Ravi	Delhi
Rukmani	Bombay

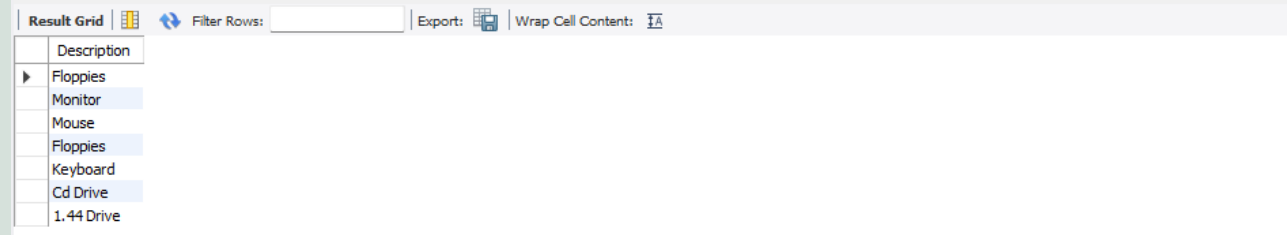
3. List the various products available from the product_master table.

Query:

```
select Description from product_master;
```

Image:

```
47  -- 3. List the various products available from the product_master table.
48 • select Description from product_master;
```



The screenshot shows a database interface with a 'Result Grid' tab. It displays the results of the SQL query 'select Description from product_master;'. The table has one column: 'Description'. The data rows are: Floppies, Monitor, Mouse, Floppies, Keyboard, Cd Drive, and 1.44 Drive.

Description
Floppies
Monitor
Mouse
Floppies
Keyboard
Cd Drive
1.44 Drive

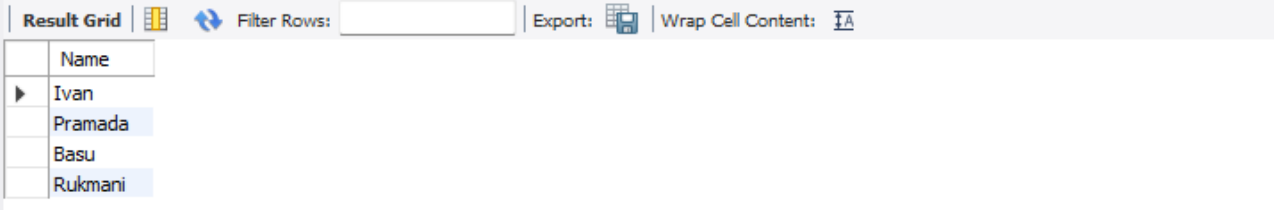
4) List all the clients who are located in Bombay.

Query:

```
select Name from client_master where City = 'Bombay';
```

Image:

```
50  -- 4. List all the clients who are located in Bombay.
51 • select Name from client_master where City = 'Bombay';
```



The screenshot shows a database interface with a query editor and a result grid. The query editor contains the SQL statement: `select Name from client_master where City = 'Bombay';`. The result grid displays the following data:

Name
Ivan
Pramada
Basu
Rukmani

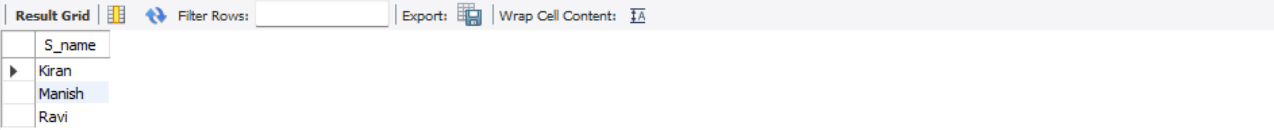
5) Find the names of the salesman who have a salary equal to Rs. 3000

Query:

```
select S_name from Salesman_master where Sal_Amt = 3000;
```

Image:

```
53  -- 5. Find the names of the salesman who have a salary equal to Rs. 3000
54 • select S_name from Salesman_master where Sal_Amt = 3000;
```



The screenshot shows a database interface with a query editor and a result grid. The query editor contains the SQL statement: `select S_name from Salesman_master where Sal_Amt = 3000;`. The result grid displays the following data:

S_name
Kiran
Manish
Ravi

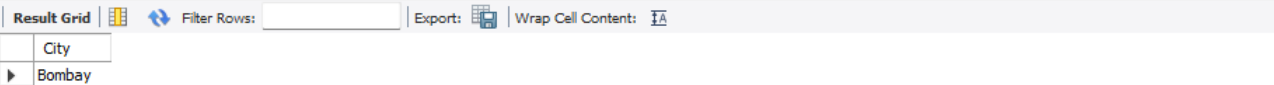
6. List out only unique values for the city of client_master table.

Query:

```
select distinct City from Salesman_master;
```

Image:

```
56  -- 6. List out only unique values for the city of client_master table.
57 • select distinct City from Salesman_master;
```



The screenshot shows a database interface with a query editor and a result grid. The query editor contains the SQL statement: `select distinct City from Salesman_master;`. The result grid displays the following data:

City
Bombay

7) Display product_master table according to the sell_price of product.

Query:

select * from product_master order by sell_price;

Image:

```
59  -- 7. Display product_master table according to the sell_price of product.
60 • select * from product_master order by sell_price;
```

Product_No	Description	P_percent	U_Measure	Qty_on_hand	Reorder_lvl	sell_price	Cost_price
P001	Floppies	5	Piece	100	20	525	500
P004	Floppies	5	Piece	100	20	525	500
P003	Mouse	5	Piece	20	5	1050	1000
P005	Keyboard	2	Piece	10	3	3150	3050
P006	Cd Drive	3	Piece	10	3	5250	5100
P007	1.44 Drive	4	Piece	10	3	8400	8000
P002	Monitor	6	Piece	10	3	12000	11280

8) Display product_master table according to the sell_price and cost_price.

Query:

select * from product_master order by sell_price, cost_price;

Image:

```
62  -- 8) Display product_master table according to the sell_price and cost_price.
63 • select * from product_master order by sell_price, cost_price;
```

Product_No	Description	P_percent	U_Measure	Qty_on_hand	Reorder_lvl	sell_price	Cost_price
P001	Floppies	5	Piece	100	20	525	500
P004	Floppies	5	Piece	100	20	525	500
P003	Mouse	5	Piece	20	5	1050	1000
P005	Keyboard	2	Piece	10	3	3150	3050
P006	Cd Drive	3	Piece	10	3	5250	5100
P007	1.44 Drive	4	Piece	10	3	8400	8000
P002	Monitor	6	Piece	10	3	12000	11280

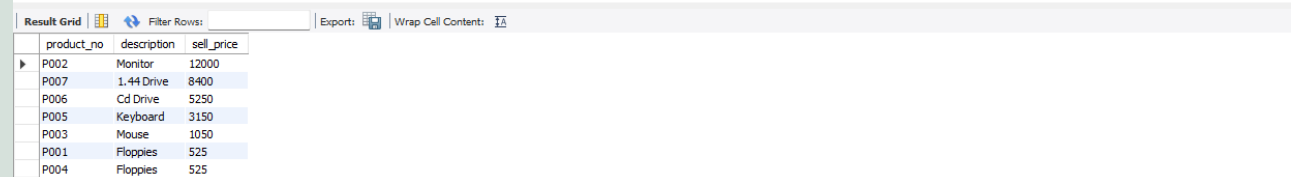
9) Display product_no, description in descending order of sell_price for product_master table.

Query:

```
select product_no, description, sell_price from product_master order by sell_price desc;
```

Image:

```
65  -- 9) Display product_no, description in descending order of sell_price for product_master table.
66 • select product_no, description, sell_price from product_master order by sell_price desc;
```



	product_no	description	sell_price
▶	P002	Monitor	12000
	P007	1.44 Drive	8400
	P006	Cd Drive	5250
	P005	Keyboard	3150
	P003	Mouse	1050
	P001	Floppies	525
	P004	Floppies	525

B) Updating records in a table.

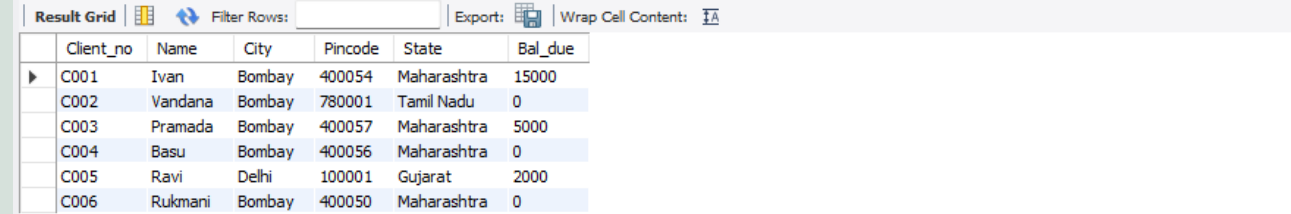
1) Change the city of client_no 'C002' to 'Bombay'.

Query:

```
update client_master set city = 'Bombay' where client_no = 'C002';
select * from client_master;
```

Image:

```
68 • SET SQL_SAFE_UPDATES = 0;
69  -- -- B) Updating records in a table.
70  -- 1) Change the city of client_no 'C002' to 'Bombay'.
71 • update client_master set city = 'Bombay' where client_no = 'C002';
72 • select * from client_master;
```



	Client_no	Name	City	Pincode	State	Bal_due
▶	C001	Ivan	Bombay	400054	Maharashtra	15000
	C002	Vandana	Bombay	780001	Tamil Nadu	0
	C003	Pramada	Bombay	400057	Maharashtra	5000
	C004	Basu	Bombay	400056	Maharashtra	0
	C005	Ravi	Delhi	100001	Gujarat	2000
	C006	Rukmani	Bombay	400050	Maharashtra	0





2) Change the bal_due of client_no'C001' to Rs.1000

Query:

```
update client_master set Bal_due = 1000 where client_no = 'C001';  
select * from client_master;
```

Image:

```
74 -- 2) Change the bal_due of client_no'C001' to Rs.1000  
75 • update client_master set Bal_due = 1000 where client_no = 'C001';  
76 • select * from client_master;
```

Result Grid			Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: 	
	Client_no	Name	City	Pincode	State	Bal_due
▶	C001	Ivan	Bombay	400054	Maharashtra	1000
	C002	Vandana	Bombay	780001	Tamil Nadu	0
	C003	Pramada	Bombay	400057	Maharashtra	5000
	C004	Basu	Bombay	400056	Maharashtra	0
	C005	Ravi	Delhi	100001	Gujarat	2000
	C006	Rukmani	Bombay	400050	Maharashtra	0

3) Change the cost price of Floppies to Rs. 950.00

Query:

```
update Product_master set Cost_price = 950 where Description = 'Floppies';  
select * from Product_master;
```

Image:

```
78 -- 3) Change the cost price of Floppies to Rs. 950.00  
79 • update Product_master set Cost_price = 950 where Description = 'Floppies';  
80 • select * from Product_master;
```

Result Grid		Filter Rows:		Export:		Wrap Cell Content:		
	Product_No	Description	P_percent	U_Measure	Qty_on_hand	Reorder_lvl	sell_price	Cost_price
▶	P001	Floppies	5	Piece	100	20	525	950
	P002	Monitor	6	Piece	10	3	12000	11280
	P003	Mouse	5	Piece	20	5	1050	1000
	P004	Floppies	5	Piece	100	20	525	950
	P005	Keyboard	2	Piece	10	3	3150	3050
	P006	Cd Drive	3	Piece	10	3	5250	5100
	P007	1.44 Drive	4	Piece	10	3	8400	8000

4) Change the city of the salesman to Mumbai.

Query:

update Salesman_master set City='Mumbai';

select * from Salesman_master;

Image:

```
82  -- 4) Change the city of the salesman to Mumbai.
83 • update Salesman_master set City='Mumbai';
84 • select * from Salesman_master;
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	S_no	S_name	City	Pin	State	Sal_Amt	Tgt_toget	Ytd_Sales	Remarks
▶	S001	Kiran	Mumbai	400002	Maharashtar	3000	100	50	Excellent
	S002	Manish	Mumbai	400001	Maharashtar	3000	200	100	Good
	S003	Ravi	Mumbai	400032	Maharashtar	3000	200	100	Average
	S004	Ashish	Mumbai	400044	Maharashtar	3500	200	150	Good

C) Deleting records in a table:

1) Delete all salesman from the salesmane_master whose salaries are equal to Rs. 3500.

Query:

delete from Salesman_master where sal_amt = 3500;

select * from Salesman_master;

Image:

```
86  -- -- C) Deleting records in a table:
87  -- 1) Delete all salesman from the salesmane_master whose salaries are equal to Rs. 3500.
88 • delete from Salesman_master where sal_amt = 3500;
89 • select * from Salesman_master;
```

Result Grid		Filter Rows:		Export:		Wrap Cell Content:			
	S_no	S_name	City	Pin	State	Sal_Amt	Tgt_toget	Ytd_Sales	Remarks
▶	S001	Kiran	Mumbai	400002	Maharashtar	3000	100	50	Excellent
	S002	Manish	Mumbai	400001	Maharashtar	3000	200	100	Good
	S003	Ravi	Mumbai	400032	Maharashtar	3000	200	100	Average

2) Delete all products from product_master where the quantity on hand is equal to 100.

Query:

delete from Product_master where Qty_on_hand = 100;

select * from Product_master;

Image:

```
91 -- 2) Delete all products from product_master where the quantity on hand is equal to 100.
92 • delete from Product_master where Qty_on_hand = 100;
93 • select * from Product_master;
```

Result Grid								
Filter Rows:								
Export: Wrap Cell Content:								
	Product_No	Description	P_percent	U_Measure	Qty_on_hand	Reorder_lvl	sell_price	Cost_price
▶	P002	Monitor	6	Piece	10	3	12000	11280
	P003	Mouse	5	Piece	20	5	1050	1000
	P005	Keyboard	2	Piece	10	3	3150	3050
	P006	Cd Drive	3	Piece	10	3	5250	5100
	P007	1.44 Drive	4	Piece	10	3	8400	8000

3) Delete from client_master where the column state holds the value 'Tamil Nadu'.

Query:

delete from client_master where State = 'Tamil Nadu';

select * from client_master;

Image:

```
96 -- 3) Delete from client_master where the column state holds the value 'Tamil Nadu'
97 • delete from client_master where State = 'Tamil Nadu';
98 • select * from client_master;
```

Result Grid						
Filter Rows:						
Export: Wrap Cell Content:						
	Client_no	Name	City	Pincode	State	Bal_due
▶	C001	Ivan	Bombay	400054	Maharashtra	1000
	C003	Pramada	Bombay	400057	Maharashtra	5000
	C004	Basu	Bombay	400056	Maharashtra	0
	C005	Ravi	Delhi	100001	Gujarat	2000
	C006	Rukmani	Bombay	400050	Maharashtra	0

E) Altering the table structure:

1) Add a column called 'telephone' of datatype 'number' and size=10 to the client_master table.

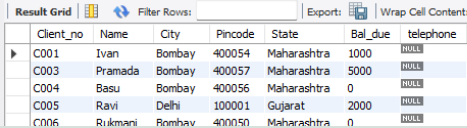
Query:

```
alter table client_master add column telephone numeric(10);
```

```
select * from client_master;
```

Image:

```
100 -- -- E) Altering the table structure:
101 -- 1) Add a column called 'telephone' of datatype 'number' and size=10 to the client_master table.
102 • alter table client_master add column telephone numeric(10);
103 • select * from client_master;
```



Client_no	Name	City	Pincode	State	Bal_due	telephone
C001	Ivan	Bombay	400054	Maharashtra	1000	000000
C003	Pramada	Bombay	400057	Maharashtra	5000	000000
C004	Basu	Bombay	400056	Maharashtra	0	000000
C005	Ravi	Delhi	100001	Gujarat	2000	000000
C006	Rukmani	Romhav	400050	Maharashtra	0	000000

2) Change the size of sell_price column in product_master to 10,2.

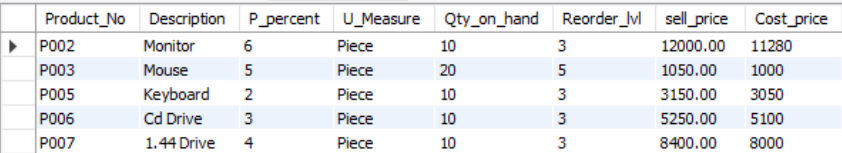
Query:

```
alter table product_master modify column sell_price decimal(10,2);
```

```
select * from product_master;
```

Image:

```
105 -- 2) Change the size of sell_price column in product_master to 10,2.
106 • alter table product_master modify column sell_price decimal(10,2);
107 • select * from product_master;
```



Product_No	Description	P_percent	U_Measure	Qty_on_hand	Reorder_lvl	sell_price	Cost_price
P002	Monitor	6	Piece	10	3	12000.00	11280
P003	Mouse	5	Piece	20	5	1050.00	1000
P005	Keyboard	2	Piece	10	3	3150.00	3050
P006	Cd Drive	3	Piece	10	3	5250.00	5100
P007	1.44 Drive	4	Piece	10	3	8400.00	8000

3) Rename column telephone to new name as contact for client_master table.

Query:

```
alter table client_master modify column telephone numeric(10);
```

```
select * from client_master;
```

Image:

```
109 -- 3) Rename column telephone to new name as contact for client_master table.
110 • alter table client_master modify column telephone numeric(10);
111 • select * from client_master;
```

Result Grid		Filter Rows:		Export:		Wrap Cell Content:	
	Client_no	Name	City	Pincode	State	Bal_due	telephone
▶	C001	Ivan	Bombay	400054	Maharashtra	1000	NULL
	C003	Pramada	Bombay	400057	Maharashtra	5000	NULL
	C004	Basu	Bombay	400056	Maharashtra	0	NULL
	C005	Ravi	Delhi	100001	Gujarat	2000	NULL
	C006	Rukmani	Bombay	400050	Maharashtra	0	NULL

4) Delete column contact from client_master table.

Query:

```
alter table client_master drop Pincode;
```

```
select * from client_master;
```

Image:

```
113 -- 4) Delete column contact from client_master table.
114 • alter table client_master drop Pincode;
115 • select * from client_master;
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Client_no	Name	City	State	Bal_due	telephone
	C001	Ivan	Bombay	Maharashtra	1000	NULL
	C003	Pramada	Bombay	Maharashtra	5000	NULL
	C004	Basu	Bombay	Maharashtra	0	NULL
	C005	Ravi	Delhi	Gujarat	2000	NULL
	C006	Rukmani	Bombay	Maharashtra	0	NULL

F) Deleting the table structure along with data:

Create table employee with 4 columns and 5 rows.

1) Destroy the table employee along with its data.

Query:

```
alter table client_master drop Pincode;
```

```
select * from client_master;
```

Image:

```
117 -- -- F) Deleting the table structure along with data:
118 -- Create table employee with 4 columns and 5 rows.
119 -- 1) Destroy the table employee along with its data.
120 • CREATE TABLE employees (eid INT ,ename VARCHAR(50),Eaadhar_no decimal(65),department VARCHAR(50));
121 • INSERT INTO employees VALUES (1, 'Dwij', '123456789012', 'CSE');
122 • INSERT INTO employees VALUES (2, 'Ender', '234567890123', 'BDA');
123 • INSERT INTO employees VALUES (3, 'Harry', '345678901234', 'CS');
124 • INSERT INTO employees VALUES (4, 'Potter', '456789012345', 'CBA');
125 • INSERT INTO employees VALUES (5, 'Steve', '567890123456', 'CS');
126
127 • SELECT * FROM employees;
```

Result Grid				
Filter Rows:				
Export:				
Wrap Cell Contents:				
	eid	ename	Eaadhar_no	department
1	1	Dwij	123456789012	CSE
2	2	Ender	234567890123	BDA
3	3	Harry	345678901234	CS
4	4	Potter	456789012345	CBA
5	5	Steve	567890123456	CS

(dropping the employees table)

```
128 • drop table employees;
```

***G)* Renaming the table:**

1) Change the name of the salesman_master table to sman_mast.

Query:

rename table salesman_master to sman_mast;

SELECT * FROM sman_mast;

Image:

```
130 -- -- G) Renaming the table:
131 -- 1) Change the name of the salesman_master table to sman_mast.
132 • rename table salesman_master to sman_mast;
133 • SELECT * FROM sman_mast;
```

	S_no	S_name	City	Pin	State	Sal_Amt	Tgt_toget	Ytd_Sales	Remarks
►	S001	Kiran	Mumbai	400002	Maharashtar	3000	100	50	Excellent
	S002	Manish	Mumbai	400001	Maharashtar	3000	200	100	Good
	S003	Ravi	Mumbai	400032	Maharashtar	3000	200	100	Average