

# **Database Management System Lab**

**B.Tech (Information Technology)  
5<sup>th</sup> Semester**

## **Exercise No. 3**

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## Exercise No. 3

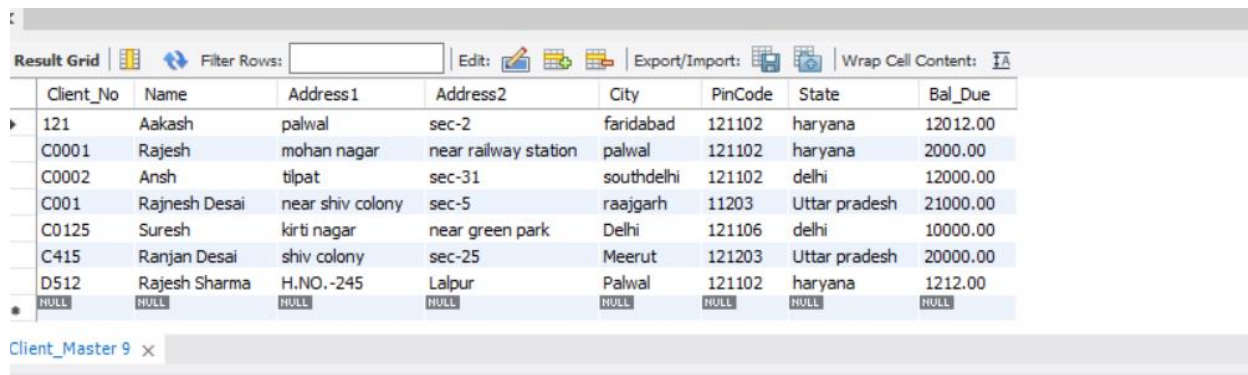
AIM:

Apply Operators, Range Searching, and Pattern Matching on data to understand the concept of And, Or, Not, Arithmetic Operator, Like operator, In, Not in operator.

### QUERIES:-

use dbms1;

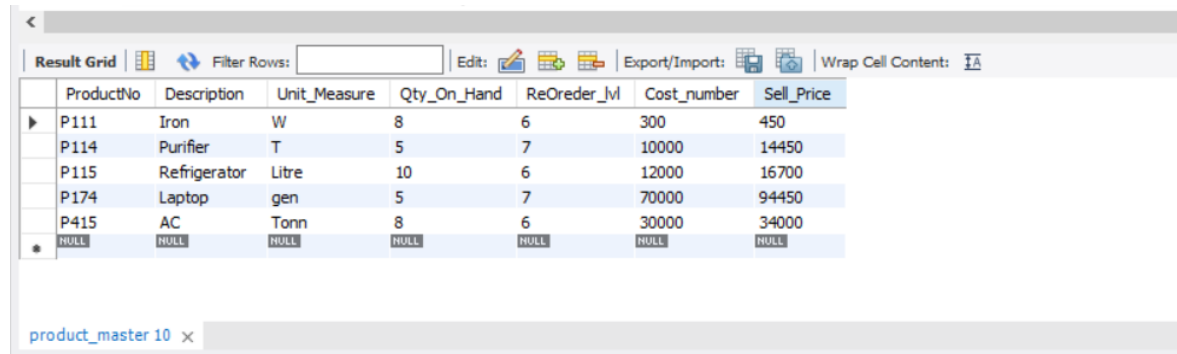
select \* from Client\_Master;



The screenshot shows a database query result grid with the following data:

Client_No	Name	Address1	Address2	City	PinCode	State	Bal_Due
121	Aakash	palwal	sec-2	faridabad	121102	haryana	12012.00
C0001	Rajesh	mohan nagar	near railway station	palwal	121102	haryana	2000.00
C0002	Ansh	tilpat	sec-31	southdelhi	121102	delhi	12000.00
C001	Rajnesh Desai	near shiv colony	sec-5	raajgarh	11203	Uttar pradesh	21000.00
C0125	Suresh	kirti nagar	near green park	Delhi	121106	delhi	10000.00
C415	Ranjan Desai	shiv colony	sec-25	Meerut	121203	Uttar pradesh	20000.00
D512	Rajesh Sharma	H.NO.-245	Lalpur	Palwal	121102	haryana	1212.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

select \* from product\_master ;



The screenshot shows a database query result grid with the following data:

ProductNo	Description	Unit_Measure	Qty_On_Hand	ReOrder_lvl	Cost_number	Sell_Price
P111	Iron	W	8	6	300	450
P114	Purifier	T	5	7	10000	14450
P115	Refrigerator	Litre	10	6	12000	16700
P174	Laptop	gen	5	7	70000	94450
P415	AC	Tonn	8	6	30000	34000
NULL	NULL	NULL	NULL	NULL	NULL	NULL

select \* from order\_detail ;

Order_No	Client_No	OrderDate	DelyAddr	Salesman_No	Staus	DelyType	DelyDate	Billyn
O001	C001	2020-10-06	palwal	S001			2020-11-11	A
O002	C0001	2020-11-16	palwal	S002	on way	emi	2020-12-11	B
O003	C0002	2020-06-16	faridabad	A6d	at store	emi	2020-06-28	D

**QUERY 1:** List the name of all clients having 'a' as the second letter in their name.  
**Solution:**

**select Name from Client\_Master where Name like "\_a%";**

Name
Aakash
Rajesh
Rajnesh Desai
Ranjan Desai
Rajesh Sharma

**QUERY 2:** List the clients who stay in a city whose first letter is 'M'  
**Solution:**

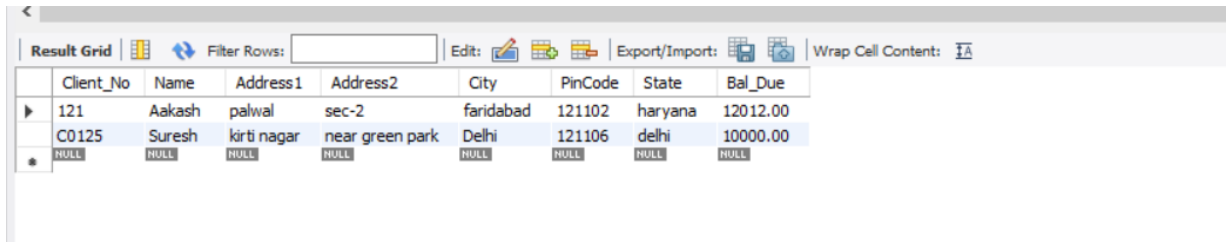
**select \* from Client\_Master where City like "M%";**

Client_No	Name	Address1	Address2	City	PinCode	State	Bal_Due
C415	Ranjan Desai	shiv colony	sec-25	Meerut	121203	Uttar pradesh	20000.00

**QUERY 3:** List all the client who stay either in 'Delhi' or in 'Faridabad'.

**Solution:**

```
select * from Client_Master where City ="Delhi" OR City = "faridabad";
```



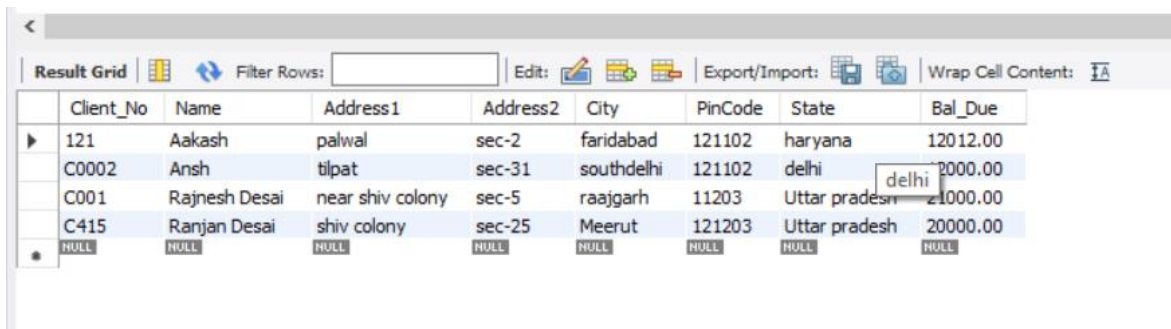
The screenshot shows a database query result grid with the following data:

Client_No	Name	Address1	Address2	City	PinCode	State	Bal_Due
121	Aakash	palwal	sec-2	faridabad	121102	haryana	12012.00
C0125	Suresh	kirti nagar	near green park	Delhi	121106	delhi	10000.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

**QUERY 4:** List all the client whose BalDue is more than 10000.

**Solution:**

```
select * from Client_Master where Bal_Due >10000 ;
```



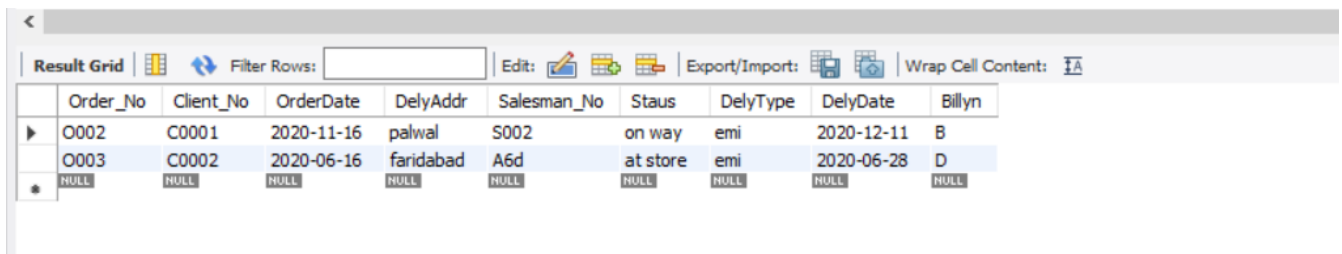
The screenshot shows a database query result grid with the following data:

Client_No	Name	Address1	Address2	City	PinCode	State	Bal_Due
121	Aakash	palwal	sec-2	faridabad	121102	haryana	12012.00
C0002	Ansh	tilpat	sec-31	southdelhi	121102	delhi	20000.00
C001	Rajnesh Desai	near shiv colony	sec-5	raajgarh	11203	Uttar pradesh	10000.00
C415	Ranjan Desai	shiv colony	sec-25	Meerut	121203	Uttar pradesh	20000.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

**QUERY 5:** List the order information for clientno 'C0001' and 'C0002'.

**Solution:**

```
select * from order_detail where Client_No ="C0001" or Client_No ="C0002";
```



The screenshot shows a database query result grid with the following data:

Order_No	Client_No	OrderDate	DelyAddr	Salesman_No	Staus	DelyType	DelyDate	Billyn
O002	C0001	2020-11-16	palwal	S002	on way	emi	2020-12-11	B
O003	C0002	2020-06-16	faridabad	A6d	at store	emi	2020-06-28	D
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

**QUERY 6:** List all information from Sales\_order table for orders placed in the month of 'June'.

**Solution:**

```
select * from order_detail where OrderDate like "____-06%";
```

Order_No	Client_No	OrderDate	DelyAddr	Salesman_No	Staus	DelyType	DelyDate	Billyn
O003	C0002	2020-06-16	faridabad	A6d	at store	emi	2020-06-28	D
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

**QUERY 7:** List all the products whose QtyonHand is less than reorder level.

**Solution:**

```
select * from product_master where Qty_On_Hand < ReOreder_lvl;
```

ProductNo	Description	Unit_Measure	Qty_On_Hand	ReOreder_lvl	Cost_number	Sell_Price
P114	Purifier	T	5	7	10000	14450
P174	Laptop	gen	5	7	70000	94450
NULL	NULL	NULL	NULL	NULL	NULL	NULL

**QUERY 8(a):** List all the products whose QtyonHand is less than reorder level.

**Solution:**

```
select * from product_master where Sell_Price >500;
```

ProductNo	Description	Unit_Measure	Qty_On_Hand	ReOreder_lvl	Cost_number	Sell_Price
P114	Purifier	T	5	7	10000	14450
P115	Refrigerator	Litre	10	6	12000	16700
P174	Laptop	gen	5	7	70000	94450
P415	AC	Tonn	8	6	30000	34000
NULL	NULL	NULL	NULL	NULL	NULL	NULL

**QUERY 8(b):** List List all products whose selling price is more than 500. Calculate a new selling price as, original selling price \* 0.5.

**Solution:**

```
select ProductNo,Description,Unit_Measure,Qty_On_Hand,ReOreder_lvl,Cost_number,
Sell_Price*0.5 "selling price" from product_master ;
```



Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	ProductNo	Description	Unit_Measure	Qty_On_Hand	ReOrder_lvl	Cost_number	selling price
▶	P111	Iron	W	8	6	300	225.0
	P114	Purifier	T	5	7	10000	7225.0
	P115	Refrigerator	Litre	10	6	12000	8350.0
	P174	Laptop	gen	5	7	70000	47225.0
	P415	AC	Tonn	8	6	30000	17000.0