### Institute of computer technology

### B.Tech-CSE(BDA)

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Sem:-3

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Batch:-31

Sub:-DBMS

Date:-12/8/24

#### Practical 3

Q:- Queries on computation on table data:

- 1) Find the name of all clients having 'a ' as the second letter in their names
- 2) Find out the clients whose name is four character ling and second letter is 'a'.
- 3) Find out the name of city whose second last character is 'a'.
- 4) Print the list of clients whose bal\_due is greater than or equal to 10000.
- 5) Print the information from sales\_order table for orders placed in the month of January.
- 6) Display the order information for client no 'C003' and 'C001'.
- 7) Find products whose selling price is greater than 2000 and less than or equal to 5000.
- 8) Find products whose selling price is more than 1500. Calculate a new selling price as, original

selling price \* .15. Rename the new column in the above query as new\_price.

- 9) List the names, city and state of clients who are not in the state of 'Maharashtra'.
- 10) Count the total number of orders.
- 11) Calculate the average price of all products.

12) Determine the maximum and minimum product prices. Rename the output as max\_price and

min\_price respectively.

- 13) Count the number of products having price greater than or equal to 1500.
- 14) Find all the products whose qty\_on\_hand is less than reorder level.
- 15) Create table cmaster from client\_master table.
- 16) Insert data in cmaster from client master where city='bombay'
- 17) Create table sales from sales\_order with order\_no and client\_no columns.
- 18) Insert data in sales from sales\_order table.

### A=> Query:-

use BDA\_23162121020;

create table Sales\_order(Order\_no varchar(6),Order\_Date date,Client\_no varchar(6),S\_no varchar(6),Dely\_type char(1),Billed\_yn char(1),Dely\_Date date,Order\_Status varchar(10));

insert into Sales\_order values('O1901' ,str\_to\_date('02/06/2015', '%d/%m/%Y') ,'C001' ,'S001' ,'F' ,'N' ,str\_to\_date('20/06/2015', '%d/%m/%Y') ,'InProcess');

insert into Sales\_order values('O1902' ,str\_to\_date('25/01/2015', '%d/%m/%Y') ,'C002' ,'S002' ,'P' ,'N' ,str\_to\_date('27/06/2015', '%d/%m/%Y') ,'Cancelled');

insert into Sales\_order values('O4665' ,str\_to\_date('18/02/2015', '%d/%m/%Y') ,'C003' ,'S003' ,'F' ,'Y' ,str\_to\_date('20/02/2015', '%d/%m/%Y') ,'Fullfilled');

insert into Sales\_order values('O1903' ,str\_to\_date('03/04/2015', '%d/%m/%Y') ,'C001' ,'S001' ,'F' ,'Y' ,str\_to\_date('07/04/2015', '%d/%m/%Y') ,'Fullfilled');

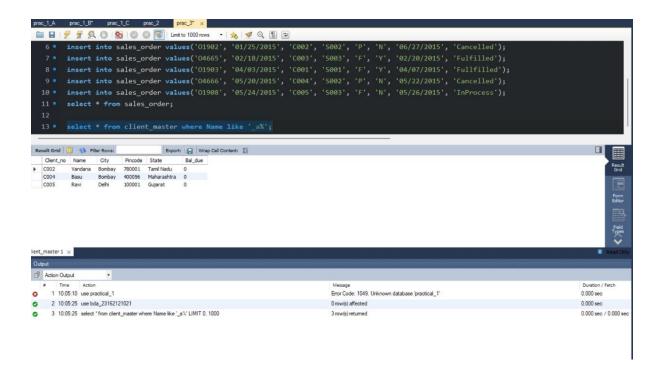
insert into Sales\_order values('O4666' ,str\_to\_date('20/05/2015', '%d/%m/%Y') ,'C004' ,'S002' ,'P' ,'N' ,str\_to\_date('22/05/2015', '%d/%m/%Y') ,'Cancelled');

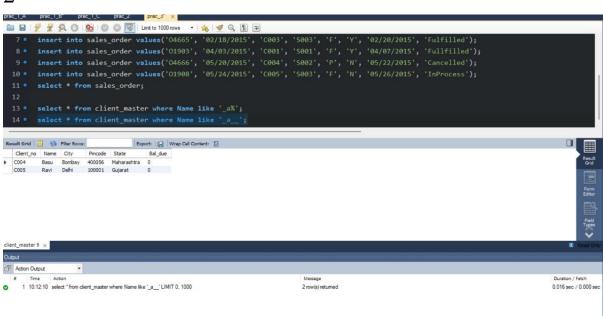
insert into Sales\_order values('O1908' ,str\_to\_date('24/05/2015', '%d/%m/%Y') ,'C005' ,'S003' ,'F' ,'N' ,str\_to\_date('26/05/2015', '%d/%m/%Y') ,'InProcess');

- 1) select \* from client\_master where Name like '\_a%';
- 2) select \* from client\_master where Name like '\_a\_';
- 3) select \* from client master where City like '%a ';

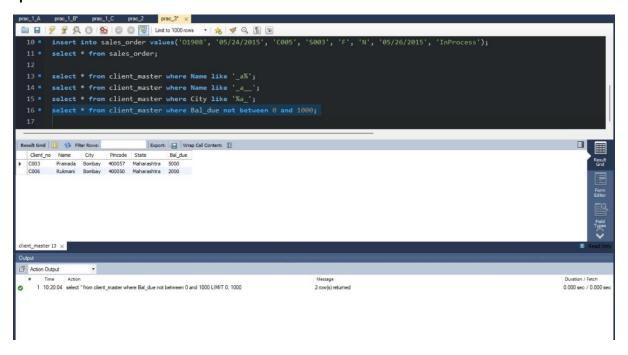
- 4) select \* from client\_master where Bal\_due >= 10000;
- 5) select \* from sales\_order where month(order\_date) = 1;
- 6) select \* from client\_master where Client\_no = 'C003'or Client\_no = 'C001';
- 7) select \* from product\_master where sell\_price between 2000 and 5000;
- 8) select sell\_price = 1500 and sell\_price \* 0.15 new\_price from product\_master;
- 9) select \* from client\_master where state not in('Maharastra');
- 10) select count(order\_no) from sales\_order;
- 11) select avg(sell\_price) "Average of Sell Price is:" from product\_master;
- 12) select max(sell\_price) "The Maximum Price is:", min(sell\_price) "The Minimum Price is:" from product\_master;
- 13) select count(product\_no) "The Total No. Of Product is:" from product\_master where sell\_price >=1050;
- 14) select count(product\_no) "The Total No. Of Product is:" from product\_master where Reorder\_lvl > Qty\_on\_Hand;
- 15) create table cmaster like client\_master;
- 16) insert into cmaster select \* from client\_master where city = 'Bombay';
- 17) create table sales as select order\_no , client\_no from sales\_order;
- 18) insert into sales (order\_no, client\_no) select Order\_no, Client\_no from sales\_order;

#### Screenshot:-

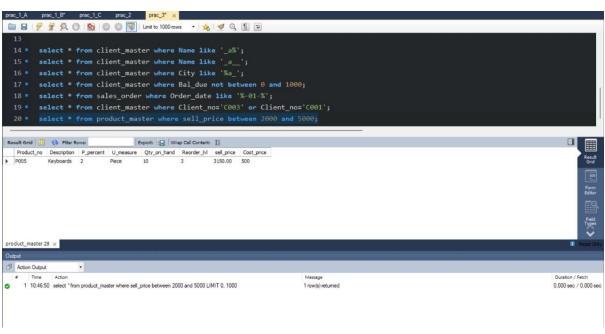


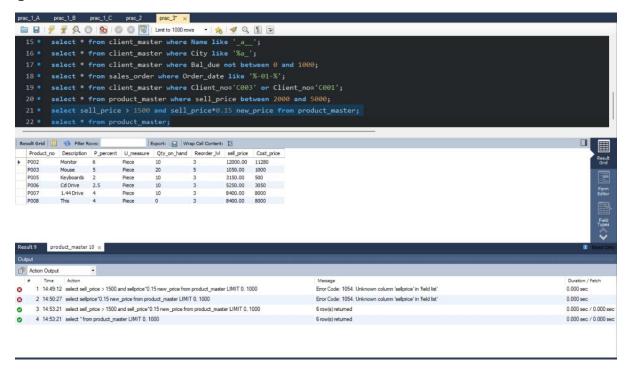


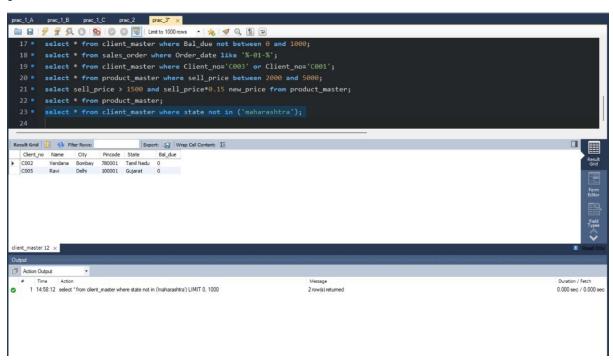
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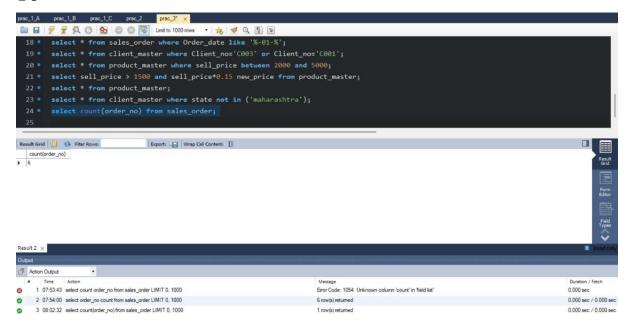


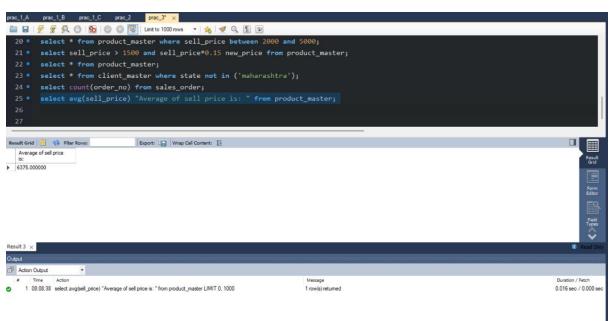
-						-		
	Order_no	Order_Date	Client_no	S_no	Dely_type	Billed_yn	Dely_Date	Order_Status
•	O1902	2015-01-25	C002	S002	Р	N	2015-06-27	Cancelled
,								

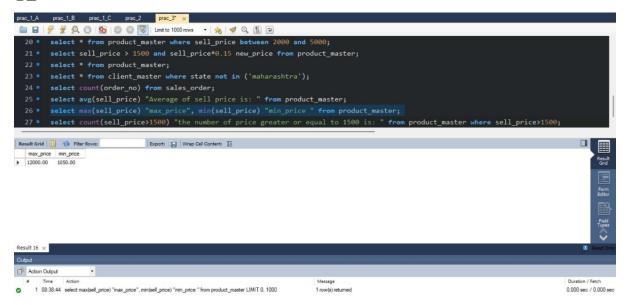


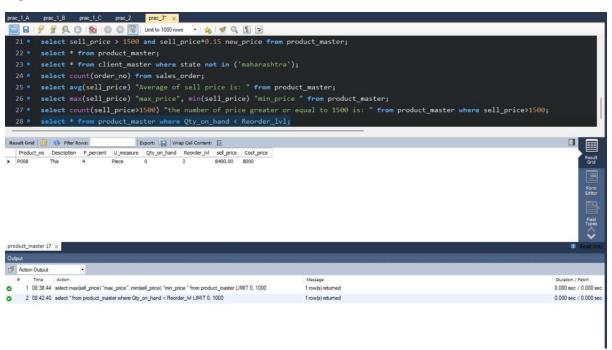


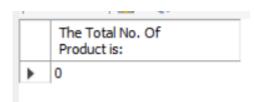








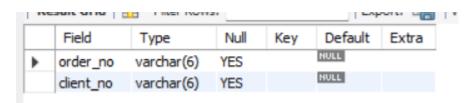




	Field	Type	Null	Key	Default	Extra
•	Client_no	varchar(6)	YES		MULL	
	Name	varchar(20)	YES		NULL	
	City	varchar(15)	YES		NULL	
	Pincode	decimal(8,0)	YES		NULL	
	State	varchar(15)	YES		NULL	
	Bal_due	decimal(10,2)	YES		HULL	

# 

						-
	Client_no	Name	City	Pincode	State	Bal_due
•	C001	Ivan	Bombay	400054	Maharastra	1000.00
	C003	Pramada	Bombay	400057	Maharastra	5000.00
	C004	Basu	Bombay	400056	Maharastra	0.00
	C006	Rukmani	Bombay	400050	Maharastra	0.00



	order_no	dient_no
•	O1901	C001
	O1902	C002
	O4665	C003
	O1903	C001
	O4666	C004
	O1908	C005

### Q:- Queries on Date manipulation:

- 1) Display the order number and day on which clients placed their order.
- 2) Display the month (in alphabets) and date when the order must be delivered.
- 3) Find the number of days elapsed between delivery date and order date from sales\_order table.
- 4) Find the date, 15 days after today's date.
- 5) Display current date and time.
- 6) Display system time..

### A=> Query:-

- 1) select order\_no, dayname(order\_date) as order\_day from sales\_order;
- 2) select date\_format(dely\_date, '%M %d') as dely\_month\_date from sales\_order;
- 3) select datediff(dely\_date, order\_date) as days\_elapsed from sales\_order;
- 4) select date\_add(current\_date(), interval 15 day) as date\_after\_15\_days;
- 5) select now() as current\_date\_time;
- 6) select curtime() as system\_time;

#### Screenshot:-

	order_no	order_day
•	01901	Tuesday
	O1902	Sunday
	04665	Wednesday
	O1903	Friday
	04666	Wednesday
	O1908	Sunday

	dely_month_date
•	June 20
	June 27
	February 20
	April 07
	May 22
	May 26

	days_elapsed
•	18
	153
	2
	4
	2
	2

	date_after_15_days
•	2024-08-20

	current_date_time
•	2024-08-05 22:39:44

	system_time
•	22:39:44

# Action logs:-

0	56 22:39:44 select order_no, dayname(order_date) as order_day from sales_order LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
0	57 22:39:44 select date_format(dely_date, "%M %d") as dely_month_date from sales_order LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
0	58 22:39:44 select datedff(dely_date, order_date) as days_elapsed from sales_order LIMIT 0, 1000	6 row(s) returned	0.016 sec / 0.000 sec
0	59 22:39:44 select date_add(current_date(), interval 15 day) as date_after_15_days LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
0	60 22:39:44 select now() as current_date_time LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
0	61 22:39:44 select curtime() as system_time LIMIT 0, 1000	1 row(s) returned	$0.000\mathrm{sec}$ / $0.000\mathrm{sec}$