LAB ASSIGNMENT 1

DBMS Lab (KCA - 252)

1. Create following tables.

i) Table name : Client_Master

Colum Name	DataType	Size
Client No	Varchar	6
Name	Varchar	20
Address1	Varchar	30
Address2	Varchar	30
City	Varchar	15
State	Varchar	15
Pincode	Number	6
Bal Due	Float	10.2

ii) Table Name: Product_Master

Colum Name	DataType	Size	
Product NO	Varchar	6	
Description	Varchar	20	
Profit percentage	Number	6	
Unit Measure	Varchar	10	
Qty On Hand	Number	6	
Reorder Lvl	Number	6	
Sell Price	Float	7.2	
Cost Price	Float	7.2	

- 2. Add a new column DOB to table Client_Master.
- 3. Change the data type of Client_No to number.
- 4. Drop the newly added column DOB from Client_Master.
- 5. Rename the column Sell_Price in Product_Master table to SellPrice.
- Rename the table Product_Master to ProductMaster.
- 7. Delete both the tables.

LAB ASSIGNMENT-1

Create following tables

Cheate table CLIENT_MASTER (client_No vanchan2 (6), Name vanchan2 (20), Adahers 1 vanchan2 (30), Adahers 2 vanchan2 (30), City vanchan2 (30), State vanchan2 (15), Pincode number (6), Bal-due number (10,2))

PRODUCT_ MASTER

Oreale table PHODULT_MASTER (PHODUCT_NO Varichard Develoption Varichard (20), Profit_percentage number (6), Reorder_IV number (6), Unit_measurement Varichard (10), Oty_on_hand number (6), Sell_price number (7,2))

ATTER TABLE CLIENT - MASTER ADD DOB NUMBER

ALTER TABLE CLIENT_MASTER MODIFY Client_NO NUMBER (6)

ALTER TABLE CLIENT - MASTER DROP COLUMN DOB

ALTER TABLE PRODUCT_MASTER REMAINS COLUMN Sell-price

ALTER TABLE PRODUCT - MASTER RENAME TO PHODUSTMO

DROP TABLE CLIENT_MANTER
DROP TABLE PRODUCTMONTEN

LAB ASSIGNMENT 2

DBMS Lab (KCA - 252)

1. Insert the following data into CLIENT_MASTER table:

CLIENTNO) NAME	CITY	PINCODE	STATE	BALDUE
C00001	Ivan Bayross	Mumbai	400054	Maharashtra	15000
C00002	Mamta Mazumdar	Madras	780001	Tamil Nadu	0
C00003	Chhaya Bankar	Mumbai	400057	Maharashtra	5000
C00004	Ashwini Joshi	Bangalore	560001	Karnataka	0
C00005	Hansel Colaco	Mumbai	400060	Maharashtra	2000
C00006	Deepak Sharma	Mangalore	560050	Karnataka	0

2. Exercise on retrieving records from the table:

- a. Display the names of all the clients.
- b. Retrieve the entire contents of the CLIENT_MASTER table.
- c. Retrieve the list of names, city and the state of all the clients.
- d. List all the clients who are located in Mumbai
- e. Find the names of client who carries a balance of 15,000/-
- f. List the details of the clients whose name starts with 'M'.
- g. List the details of clients who are staying in either Maharastra or in Karnataka

3. Exercise on updating records in a table:

- a. Change the city of clientno 'C00005' to Bangalore.
- b. Change the balance due of clientno 'C00001' to Rs. 1000.
- c. Change the city of the client to Pune

4. Exercise on deleting records in a table:

- a. Delete all clients from the CLIENT_MASTER.
- b. Delete from CLIENT_MASTER where the column state holds the value 'Tamil Nadu'.

LAB ASSIGNMENT-2

Insert the data in CLIENT_MASTER Table INSERT CLIENT_MASTER C Client No., Name, CITY, PINCODE,

VALUES ('COODS', 'Ivan Bayrass', 'Mumbai', 400054, 'Maharashtra', VALUES ('COODS', 'Mamta Mazundar', 'Madras', -180001, 'Tamil No VALUES ('COODS', 'Chhaya Bankar', 'Humbai', 4000 57, 'Maharasht VALUES ('COODS', 'Ashwini Joshi', 'Bangalore', 560001, 'Karratha VALUES ('COODS', 'Hansel Colaco', 'Mumbai', 400060, 'Maharash VALUES ('COODS', 'Beepak Sharma', 'Mangalore', 560050, 'Karrath

Select name from CLIENT_MASTER

Select name, city, state from CLIENT_MASTER

Select from CLIENT_MASTER where city = 'Mumbai'

select name from CLIENT_MASTER where baldue= 15001

select from CLIENT_MASTER where name like 'M''

select from CLIENT_MASTER where name like 'M''

select from CLIENT_MASTER where state = 'Maharash

or State='Kannatka'

whate client-MAITER SET CITY= 'Bangalone' where

update CLIENT_MASTER TET BALDUE = 1000 where lientNo = (000001

update CLIENT_MASTER SET CITY = "Pune"

ASTORM - THELLY MORT STELLED LOS

DELETE from CLIENT - MASTER where state = 'Tami'

LAB ASSIGNMENT 3 DBMS Lab (KCA – 252)

Table Name: PRODUCT_MASTER

Description: Used to store product information.

Description. Osea to se		Size
Column Name	Data Type	3126
PRODUCTNO	VARCHAR2	6
DESCRIPTION	VARCHAR2	15
PROFITPERCENT	NUMBER	4,2
	VARCHAR2	10
UNITMEASURE	NUMBER	8
QTYONHAND	NUMBER	8,2
REORDERLVL	NUMBER	8,2
SELLPRICE	Character and the second	8,2
COSTPRICE	NUMBER	

Data for PRODUCT_MASTER table:

PRODUCTNO	DESCRIPTION	PROFIT PERCENT	UNIT	QTYON HAND	REORDER LVL	SELL PRICE	PRIC
P00001		5	Piece	200	50	350	250
	1.44floppies	6	Piece	150	50	500	350
P03453	Monitors	5	Piece	100	20	600	450
P06734	Mouse	5	Piece	100	20	750	500
P07865	1.22floppies	2	Piece	150	50	850	550
P07868	Keyboards	2.5	Piece	80	30	700	45
P07885	CDDrive	4	Piece	100	40	350	25
P07965	540 HDD	5	Piece	70	30	300	17
P07975 P08865	1.44Drive 1.22Drive	5	Piece	75	30	450	30

Create the table and insert records as given above.

Write the SQL queries for the following:

- 1. Find out the names of all the clients.
- 2. Retrieve the list of names and cities of all the clients.
- List the various products available from the product_master table.
- 4. List all the clients who are located in Bombay.
- 5. Display the information for client no C00001 and C 00002...
- 6. Find the products with description as '1.44 Drive' and '1.22 Drive'.
- 7. Find all the products whose sell price is greater than 5000.
- 8. Find the list of all clients who stay in city 'Bombay' or city 'Delhi' or 'Madras'.
- 9. Find the product whose selling price is greater than 2000 and less than or equal to :
- 10. List the name, city and state of clients not in the state of 'Maharashtra'.
- 11. Change the selling price of '1.44 floppy drive' to Rs.1150.00
- 12. Delete the record with client 0001 from the client_master table.
- 13. Find the products whose selling price is more than 1500 and also find the new sell price as original selling price*15.
- 14. Find out the clients who stay in a city whose second letter is a.
- 15. Find out the name of all clients having 'a' as the second letter in their names.
- 16. List the products in sorted order of their description.
- 17. Count the total number of product.
- 18. Calculate the average price of all the products
- 19. Calculate the minimum price of products.
- 20. Determine the maximum and minimum prices. Rename the tittle as 'max_price'; min_price respectively.
- 21. Count the number of products having price greater than or equal to 1500
- 22. List the products according to ascending order of their selling price.
- 23. List the products according to descending order of their selling price.

Mede a PRODUCT_MASTER table and insect Hecotal,
MISTRY INTO PRODUCT_MASTER (Product No., Description
Profitpercent, unitmeasure, Otyonhand, Reorded vl
sell price, Costprice).

Values ('100001', '1.44 Floppies', 5, 'Piece', 200, 50

350, 250),

Values ('PO3953', 'Monidores', 6, 'Piece', 150, 50, 50, 500, 350),

Values ('PO6734', 'Mouse', 5, 'Piece', 100, 20,

Value ('P07865', '1.22 floppies', 5, 'Pièce', 100.

Values ('p07888', 'key boards', 2, 'Piece', 150, 50, 650, 550).

Values ('PO 7885', 'LD Ordive' 2.5, 'Piece', 80, 80, 80

Value ('POT965', '540 HOB', 4, 'Pièce', 100, 40, 350, 250).

Values ('807975', '1.4409ive', 5, 'Piece', 70, 8

Value ('108865', '1.22 duive', 5, 'Piece', 75, 30, 450, 300)

SOL Queries

SELECT NAME FROM CLIENT_MASTER

SELECT MAME, CITY from CLIENII_MASTER

SELECT Description from PRODUCT-MASTER

SELET * From CLIENT_MASTER Where city

- SELECT * from CLIENT_MASTER where clientNo ('COODD1', '(ODDO2)
- SELECT * from PRODUCT_MASTER where description ('1.44 Drive', '1.22 Drive')
 - SELET * from PRODUCT_MASTER Where SELL PRI
- SELECT * From PRODUCT_MASTER WHEHE SELL!

 2000 and SELLPRICE <= 5000
 - C'Bombay', 'Delni', 'Madhar')
- · select name, city, state from ellent_MA' where state!= 'Maharashtra'
- where description = 1.44 Drive'
- . Delete from client-Marter where client No:
- , select develoption, sellprice, sellprice + 1.15 new_selling_price from product-master 1 sellprice > 1500
- i. select * from client_Marten where cit
- 5. select name from client_master where like '_ax'

- 16. Select * from phoduct-master order
 Asc
- 17. Select count (x) from product-master
- 18. Select And (seleptice) from personat-in
- 19. Select min (selepuice) from product.
- 20. select max(sulphice) As max-price ou min-price from Product_Mast
- 21. Select court (*) from persoluct-rex
- 22. Select & from product-master order
- 29. select + from PRODUCT_MASTER ORDS

LAB ASSIGNMENT 4

DBMS Lab (KCA - 252)

Table name - EMPLOYEE

	T =		DEPT	SALARY	DOJ	ADDRESS	Married
ID	F_NAME	L_NAME		No. of Contract Contr	27-09-2001	GHAZIABAD	Y
1	VINAY	KUMAR	MCA	25000		MEERUT	Y
2	SUMAN	VERMA	MCA	15000	17-10-2006		Y
3	AKASH	SINGH	CS	20000	15-01-2005	KANPUR	-
	SAGAR	KUMAR	IT	20000	12-02-2019	GHAZIABAD	N
4	The second secon		CS	21000	18-09-2005	GHAZIABAD	
5	ROHAN	SHARMA	N. P. Carlotte	18000	22-10-2021	MEERUT	N
6	ROBIN	SINGH	IT		14-11-2019	GHAZIABAD	
7	AKASH	RANJAN	CS	22000	14-11-2019	GIMEINE	

Create the table and insert records as given above.

Write the SQL queries for the following:

- Find the employee details who are from Ghaziabad.
- 2. Find the Department names.
- 3. List the employee id, complete name and the department of all the employees.
- List all the employees' first name along with the department name. (Note the res should be displayed as "Vinay is working in MCA Department".)
- Display the employee names who joined after 15-01-2005.
- 6. Update the salary of employee to 25000 whose employee id is 2.
- Display the employee id, name and Annual salary of all the employees. The colu name showing annual salary should be "Annual Salary".
- List employee details with gross salary if every employee is getting a commission of 300.
- 9. List the employee details who are getting salary between 15000 and 30000.
- 10. List the employee details who joined between 27-09-2001 and 12-02-2019.
- 11. List the employees who works in MCA, CS Department.
- 12. List the employees who are not working in MCA department.
- 13. List the employees whose first name starts with 'R'.

- 14. List the employees whose first name starts with 'Ro'.
- 15. List the employees whose first name must be 5 character long and starts w
- 16. List the employees whose first name where the 2nd character must be 'o'.
- 17. List the employees who are married.
- 18. List the employees who are unmarried.
- 19. List the employees whose marriage status is not known.
- 20. List the employees who belongs to MCA department and are married

CREATE TABLE employee (id NUMBER (10), f-name VARCHAR (30), 1-name VARCHAR 2 (30), dept VARCHAR 3 (30), MUMBER (10), doj DATE, address VARCHAR 3 mauried CHAR (1));

Describe employee_;

INSERT INTO employee. (id, J-hame, 1-name, dept, 2alany, oloj, address, married)
VALUES (1, 'VINAY', 'KUMAR', 'MCA', 25000, TO-DATE ('2001-09-27', 'YYYY-MM-DD'), 'GHAZIABAB', 'Y');

INSERT INTO employee_(id, f-name, l-name, olept, salary, doj, address, married)
VALUES(2, 'VINAY', 'KUMAR', 'MCA', 15000, TO_DATE
['2006-10-17', 'YYYY-MM-DD'), 'MEERUT', 'Y');

MUSERT INTO employee (i'al, f-name, 1-name, dept, salary, aloj, adoless, morrisal)
VALUES (3, 'AKASH', 'SINDIH', 'CS', 20000, TO-DATE ('2005-01-15', 'YYYY-MM-DN'), 'KANPUR', 'Y);

MUSERT INTO employee - (id), f-name, Lname, dept, salary, doj, address, married)

NALUES (4, 'sabiar', 'kumar', IT', 20000, TO_DATE

('2019-02-12', YYYY-MM-DD'), 'CHARZIABAD', N').

11/1587 11/10 employee (id), f-name, Lname, dept, salary, doj, address, massied)
VALUES (5, 'ROHAN', 'SHARMA', '(1, 21000, TO-DA
('2005-09-18', 'YYYY-MM-DD'), 'OHHAZIABAD');

INSERT INTO employee_ tid, f-name, 1-name, olep salony, doj, address, manusied); VALUECC G, 'ROBIN', 'SIMONH', 'IT', 18000, TO-DATE ('2021-10-21', 'YYYY-MM-DD'), 'GHAZIABAD');

select & from employer;

SELECT* from employee where address = 'GIHAZIABA

S'ELECT id, f-rame, "11 1-name as "employee name"
from employee_;

Erom employee -; serect f-rame 11, is morking in, 11 gebt 11, gebo

Select * from employee _ where doj > to_date

update employee_ set salary = 25000 where

select * from employee;

select id, f-name 11 1-name ou "name", salau as "Annual salaury" from employee -;

serect vorand +300 or drove from subjodes -.

15000 to and 30000; where salary betwee

select x from employee. where dot between to_d

- 11. SELECT * FROM EMPLOYEE WHERE DEPT IN ('MCA',
- 12. SELECT* FROM EMPLOYEE WHERE DEPT!= 'MCA';
- 13. SELECT * FROM EMPLOYEE WHERE F-NAME LIKE
- 14. SELECT * FROM EMPLOYEE WHERE F. NAME LIKE
- 15. SELECT * FROM EMPLOYEE WHERE LENGTH CF-N'
 5 AND F-NAME LIKE 'R'!;
- 1. SELECT * FROM EMPLOYEE MITIERE F_NAME LIKE
- 17. SELECT * FROM EMPLOYEE MIHERE MOUNIED = 'Y';
- 18. SELECT * FROM EMPLOYEE MIHERE Mauried = "N";
- 19. SELECT * FROM EMPLOYEE WIHERE MOUVIED IS N
- 20. ZELECT * FROM EMPLOYEE MHERE DEPT = 'MCA'

KIET GROUP OF INSTITUTIONS

DEPARTMENT OF COMPUTER APPLICATIONS

LAB ASSIGNMENT 5

DBMS Lab (KCA - 252)

- Demonstrate the use of all string functions available in SQL.
- 2. Design the following table and solve the queries

Roll	F Name	M Name	L Name	Sec	City	Area	HouseNo	Div
1	Akash	Kumar	Jian	A	Ghaziabad	Rakesh Marg	C-355	1
2	Manav	Mohan	Sharma	A	Ghaziabad	Raj nagar	D-211	2
3	Chandra	Mohan	Batra	В	Meerut	Minto Road	A-201	3
4	Rakesh	Chandra	Gupta	В	Kanpur	Nehru Marg	A-145	
5	Sagar	Pratap	Singh	A	Meerut	Gandhi marg	C-35	0

- i) Display Roll Number and complete name of all the students
- ii) Display Roll Number, Name and complete address of all the students.
- iii) Display Roll number, Name of all the students. (Note The name should be displayed as A.K.Jain)
- iv) Display all the student information according to ascending order of Section.
- v) Display all the student information according to descending order of Section.
- vi) Sort all the records according to section and then according to First Name.
- vii) Display Roll number, name and city of all the students. (Note City names should be left padded with 5 *s).
- viii) Display those student details whose division has not been awarded.
- ix) Display the cities from where the students are from.
- Display Roll number, First Name and the division got. (Note Division should be displayed as 1- FIRST, 2 – SECOND, 3 – THIRD, 0- FAIL, NULL – NOT AWARDED)
- xi) Display Roll Number, First Name, Section of all the students. (Note Section A should be displayed as 1 and Section B should be displayed as 2)

3. Solve the following query

Empcode	Empname
E1	001Rajkumar
E2	Ramkumar002
E3	Ravikumar003

Output should

Empcode	Empname
El	Rajkumar
E2	Ramkumar
E3	Ravikumar

4. Solve the following query

Piest Name	Middle Name	Last Name
First Name	Kumar	Tiwari
Pankaj Ashok	Kumar	Sharma
Arun	Kumar	Sharma

Output should

Name	11 4 1- 11
P. K. Tiwari	
A. K. Sharma	JAK.
A. K. Gupta	

5. Given the table structure with data.

Sname	Marks
Raj	65
Amit	32
Sanjay	45
Rohit	40
Anil	35

Output 1 Rule - : Pass marks are 35.

Display the result as

Sname	Result
Raj	Pass
Amit	Fail
Sanjay	Pass
Rohit	Pass
Anil	Pass

T79132

UPPER ('Himanihi Chopia') OU UPPER_CASE, LOWER

('HIMANISHI') ON LOWER_CASE, LEMUITH ('HIMAN

ON LEMOITH, SUBSTR ('HIMANISHI CHOPRA') 1.6) HIMANISHI')

ON SUBSTRINO, REPLACE ('HIMANISHI CHOPRA', 'HIMAN

"HIMANUSHIII") AS REPLACE NAME

TRIM ("HIMANUSHI CHUPRA") AS TRIMSTR,

CONCAT ("HIMANUSHI", "CHUPRA") AS CONCAT_STR

FROM DUAL;

CREATE TABLE Studenty (
ROLL_NUMBER,

1-name vouchous (20),
L-name vouchous (20),
See char(1)
City vouchous (20)
Alea vouchous (50)
House No vouchous (50)
Div Number);

Select Roll, f-name !!! 'Il 1-name as full_name .

Select Roll, frame 11, , 11 Cità ar Volopiere from strate.

Select Roll, Substi (F_name, 1.1) 11'. '11 Substi (1-1,1) As Name from Students

```
(vi)
       select & from students order by sec;
       select & from students origin by sec desc
 W
(VI)
       select * from students oxder by sec, t-no
       select, Roll, 1-name 11' ' 11 L-name As M
(vii)
        city, length city) + 5, 'x') as city
      Select & from students where DIV 18 MUI
cilly
     select distinct city from students;
(ix)
      select Roll, 7-name,
 (X)
       CASE
            when DIV= 1 THEM 'FIRST'
            mper DIAZS THEN, 28COND,
            when DIN=3 THEM' THIRD'
            when DIN= D THEN 'FAIL'
             Else 'Not Awarded'
     rossivid in ams
      from students;
(ix
        select Roll, Ename
         92A9
         when Sec = 'A' THEN 1
         when sec = 1B' THEM 2
         Enal As Section
         from students;
```

Select Empode,
TRIM (THanslate (Emphame '0123456789')) As
Emphame from Employees

Select Substr (finistname, 1, 1) 11 '. '11 Substr (Lout_name 1,1) As Name from students.

select sname,

when marks >= 35 then 'Pass'

Else 'fail'

END Ar Result

. from students;

LAB ASSIGNMENT 6

DBMS Lab (KCA - 252)

Create the following tables & insert the records as given.

i) CLIENT_MASTER (Used for storing client information)

Column Name	Data Type	Size	Attribute
Client No	Varchar2	6	Primary Key / Must Start with 'C'
Name	Varchar2	20	Not Null
CITY	Varchar2	20	Must be either from Delhi or Mumbai or Chennai only.
Pincode	Number	6	
State	Varchar2	20	
BALDUE	Number	10,2	
Email	Varchar2	30	Always take unique value

ii) PRODUCT_MASTER (Used for storing Product Information)

Column Name	Data Type	Size	Attribute
Product_No	Varchar2	6	Primary Key / Must Start with 'P'
Name	Varchar2	20	Not Null
UnitMeasure	Varchar2	10	Not Null
QtyOnHand	Liteudure		Not Null, cannot less than ReorderLeve
ReorderLevel	Number	8	Not Null
SellPrice	Number	8,2	Not Null, cannot be 0 or -ve
CostPrice	Number	8,2	Not Null, cannot be 0 or -ve

iii) SALESMAN_MASTER (Used for storing salesman information)

Column Name	Data Type	Size	Attribute				
Salesman_No	Varchar	6	Primary Key/First Letter must start w				
Sal name	Varchar	20	Not Null				
Address	Varchar	40	Not Null				
City	Varchar	20					
State	Varchar	20					
Pincode	Number	6					
Sal Amount	Number	8,2	Not Null, Cannot be 0 or -ve				
Tgt to get	Number	8,2	Not Null, Cannot be 0 or -ve				
Ytd Sales	Number	8,2	Not Null, Cannot be 0 or -ve				
Remarks	Varchar	30					

iv) SALES_ORDER (Used to store client's orders)

Column Name	Data Type	Size	Attribute	
Order NO			Primary Key/ First letter must start v	
Order Date	Date		Not Null	
Client_No	Varchar2	6	Foreign Key reference client Client Master table	
Dely add	Varchar2	25		
Salesman_No	Varchar2	6	Foreign Key references Salesman Salesman Master table	
Dales trens	Char	1	Delivery part(P)/full(F), default F	
Dely_type Billed_yn	Char	1	Values must be 'Y'/'N'	
Dely Date	Date	1.39	Can not be less than Order Date	
Order_Status	Varchar2	10	Values ('In Process(IP)'; 'Fulfi 'Canceled(C)'	

v) SALES_ORDER_DETAILS

Column Name	Data Type	Size	Attribute
Order_No	Varchar	6	Primary Key/Foreign Key reference Order No of Sales_Order
Product_No	Varchar2	6	Primary Key/Foreign Key reference Product_No of Product_Master
Qty Order	Number	8	
Qty disp	Number	8	

Data for CLIENT_MASTER

CLIENTNO	NAME	CITY	PINCODE	STATE	BALDUE	EMA
C00001	Pankaj Sharma	Delhi	400054	Delhi	15000	pk@gmai
C00002	Yogesh Sharma	Delhi	780001	Delhi	0	ys@gmai
C00003	Aditya Singh	Mumbai	400057	Maharashtra	5000	as@gmai
C00004	Ashwini Joshi	Chennai	560001	Tamil Nādu	0	aj@gmai
C00005	Neha Sharma	Mumbai	400060	Maharashtra	2000	ns@gma
C00006	Divya Gupta	Chennai	560050	Tamil Nādu	0	

Data for PRODUCT_MASTER

Product_No	Name	Unit Measure	Qty OnHand	Reorder Level	Sell Price
P00001	T-Shirt	Piece	200	50	350
P03453	Shirt	Piece	150	50	500
P06734	Cotton Jeans	Piece	100	20	600
P07865	Jeans	Piece	100	20	750
P07868	Trouser	Piece	150	50	850
P07885	Pull Over	Piece	80	30	700
P07965	Denim Shirts	Piece	100	40	350
P07975	Lycra Tops	Piece	70	30	300
P08865	Skirts	Piece	75	30	450

Data For SALESMAN_MASTER

Salesman_no	Name	Address	City	PIN	Stat e	Sala mt	Tgt_ To_ge t	Y
S00001	Kiran	A/14 worli	Mumbai	400002	Mah	3000	100	50
S00002	Manish	65,narima	Mumbai	400001	Mah	3000	200	10
S00003	Ravi	P-7 Bandra	Mumbai	400032	Mah	3000	200	10
S00004	Ashish	A/5 Juhu Bombay	Mumbai	400044	Mah	3500	200	15

Data for SALES_ORDER table:

S_Orderdate	ClientN o	Delytype	Bill YN	Salesmanno	Delydat
12-jan-21	0001	F	N	S00001	20-jan-2
25-jan-21	0002	P	N		27-jan-2
18-feb-21	0003	F			20-feb-2
03-apr-21	0001	F			07-apr-2
20-may-21	0004	P			
24-may-21	0005	F	_		22-may-
	12-jan-21 25-jan-21 18-feb-21 03-apr-21 20-may-21	0 12-jan-21 0001 25-jan-21 0002 18-feb-21 0003 03-apr-21 0001 20-may-21 0004	0 12-jan-21 0001 F 25-jan-21 0002 P 18-feb-21 0003 F 03-apr-21 0001 F 20-may-21 0004 P	o YN 12-jan-21 0001 F N 25-jan-21 0002 P N 18-feb-21 0003 F Y 03-apr-21 0001 F Y 20-may-21 0004 P N	o YN 12-jan-21 0001 F N S00001 25-jan-21 0002 P N S00002 18-feb-21 0003 F Y S00003 03-apr-21 0001 F Y S00001 20-may-21 0004 P N S00002

Data for SALES_ORDER_DETAILS table:

S_order no	Productno	Qtyordered	Qtydisp
O19001	P00001	4	4
O19001	P07965	2	1
O19001	P07885	2	1
O19002	P00001	10	0
O46865	P07868	3	3
O46865	P07885	10	10
O19003	P00001	4	4
O19003	P03453	2	2

Create table (LIENT_MASTER (Client_No VARCHAR 2)

phimaly key, Name VARCHAR2(20) NOT NOLL,

city VARCHAR2(20) CONSTRAINT CITY_ COMITRAINT Ch

city in ('Delhi', 'Mumbai', 'Chennai')), Pincade

NUMBER (6), State VARCHAR2 (20), Balalle Mur

(10,2), Email VARCHAR2 (30) UNIQUE, CHECH

(eclient_No LIKE '(X'));

CLOSTPRICE 201);

CE) PRIMARY KEY, MOUNT VARCHAR2 (20) MOT MU

Whit_MEDIUME VARCHAR2 (20) MOT MULL, OTYONHAM

NUMBER (8) NOT MULL, SELL PRICE MUMBER (8,2)

NULL, COSTPRICE MUMBER (8,2) MOT MULL, CHECK

(PRODUCT-NO LIKE 'PX'), CHECH (ONOMHAM)

REDROERIEUEL), CHECK (SELL PRICE 20), CHECK

(COSTPRICE 201);

CHECKE table SALESMAN_MASTER (Salesman_ NO UARCHAR 2 (6) PHIMOLY Key, Sal-Name VARCHAR 2 (10) NOT MULL, NOT MULL, Address VARCHAR 2 (20) NOT MULL, CITY VARCHAR 2 (20) NOT MULL, CITY VARCHAR STATE VARCHAR (20), PINCODE MUMBER (6), Sal-AT MUMBER (8,2), NOT MULL, TOT_TO-OVET MUMBER (8,2) MOT MULL, "YTB-SALES MUMBER (8,2) MOT REMARKS VARCHAR 2 (30), CHECK (Salesman - NI (16 (5%)), CHECH (Sal-Amount >0), CHECK (TOT-TO-OVET >0), CHECK (YTO-Sales >0), CHECK (KEMARKS >0));

CREATE TABLE SALES_DROER C DROER NO VARCHAR2 (6)
PRIMARY KEY, DROER_DATE MOT NOUL, CLIENT_N
VARCHAR2 (6) REFERENCES CLIENT_MASTER CCLIENT_N
DELY_ADD VARCHAR2 (25), SALESMAN_NO VARCHAR
REFERENCES SALESMAN_MOSTER (SALESMAN_NO), DE
TYPE CHARCL) DEFAULT 'F', BILLED_YN (HARCL),
DELY_DATE DATE, DROER_STATUS VARCHAR 2 (10)
CHECH (DROER_NO LIKE'' 'NO'), CHECH (BILLED_YI
IN C'P', 'F')), CHECK (DELY_DATE > DROER_DATE
CHECH (DROER_STATUS IN C'IN PROCESS (IP)', 'FUL
(F)', (ANCELED (C)')));

CREATE TABLE SALES_ DROER_DETAILS

CORDER_NO VARCHAR (6) REFERENCES SALES_ DROER CORD

NO), PRODUCT_NO VARCHAR 2 (6) REFERENCES PRODU

MASTER CPRODUCT_NO), QTY_ORDER NUMBER (8),

OTY_DISP NUMBER (8), CHECK (OTY_ORDER)= 0)

CHECH (OTY_DISP>=OTY_DROER), PRIMARY KEY (
ORDER_NO, PRODUCT_NO));

LAB ASSIGNMENT 7

DBMS Lab (KCA - 252)

Assignments on Date Functions

- Implement the date functions of SQL.
- 2. Create the following table and perform the following queries.

Field	Datatype	Remark			
Empld Varchar2(3)		Primary key, Should start with 'E'			
Ename	Varchar2(25)	Not Null			
DOB	Date	Not Null			
DOJ	Date	Not Null, Should later than DOB			
Salary	Number(7)	Not Null, Should take only +ve value			
Adhar	Number(12)	Unique, should always take 12 digit number			

- 2.1 List the employee details who joined on a particular date.
- 2.2 Write a query to list the employees with Hiredate in the format like February 22, 1991.
- 2.3 Write a query to list the employees who joined before 2018.
- 2.4 Write a query to list the employees who joined in the month January.
- 2.5 Write a query to list the employees who have joined in the year 2019.
- 2.6 Write a query to list the employee details according to the date of joining (recent joining should come first).
- 2.7 Write a query to list the employee details along with their experience.
- 2.8 Write a query to list those employees whose salary is an odd value.
- 2.9 Write a query to list the employees of id E001 or E10, joined in the year 1991.
- 2.10 Write a query in SQL to list the employees who joined in any year except the month February.
- 2.11 Write a query to display happy birthday to those employees who are eligible to get this message.
- 2.12 Display the employee id, Name and Date of birth of all the employees(
 Note if the dob is 3 jan-1985 then it should be displayed as 3rd
 January 1985)

LAB ASSIGNMENT - 7

- SELECT SYSDATE FROM dual;
- SELECT LAST_DAY (SYSDATE, 3) AS "MONTH" FROM du SELECT LAST_DAY (SYSDATE) FROM OLUAL;
- SELECT MONTHS_BETWEEN CSYSDATE, TO_DATE ('2023-01.
 'YYYY-MM-DD')) AS "MONTHS FROM dual;
- SELECT ROUND CSYSDATE, 'MONTH') AS "ROUNDED Date"
 FROM dual;
- CREATE TABLE EMPLOYEE (Emptd. Vaycray(3) PRIMARY INOT CHECK (PMPTd) LIKE 'E'.'), Frame VARCHAR 2 (25) MOT DOB DATE NOT NULL CHECK (CONT > DOB) Salowy NUMBER (7) NOT NULL CHECK (LEN COLONY), A OLHOW NUMBER (12) UNIQUE CHECK (LEN (AGRACH) : 12));
- 1 SELECT * FROM EMPLOYEE WHERE DOZ= 10- DATE C, 5012
- 2 select ename, to-ehast coos, 'MONTH OD, YYYY)

 As Histedate FROM EMPLOYEES
- 3 SELECT * FROM EMPLOYEE WHERE DOJ < TO-DATE (2018
- 1 SELECT & FROM EMPLOYEE WHERE TO CHAR (DOT, 'M
- 5 SELECT * FROM EMPLOYEE WHERE TO-CHAR (DOJ, 174
- .6 SELECT * FROM EMPLOYEE DRDERBY DOT DESC;

- 2.7 SELECT Ename, DOI, ROUND CMONTHS. E 122,1) AS Experience FROM EMPLOY
- 5-8 SEIGGL & EKON ENDIONEE MHEEF WODE 3 0700.
- 5.0,) UNU LO-CHUB (DOI ', AAAA,) = , Td
- 5.70 SELECT * EKOM EMPLOYEE MHERE TO-CHE
- ENPLOYEE WHERE TO-CHAR (DOB, MM-
- 2.12 select EmpId, Ename, To-CHAR COOR As bate of Birth Enom employee

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LAB ASSIGNMENT 8

DBMS Lab (KCA - 252)

Assignments on Join

Note - Questions from 1 to 14 refer the sample tables Salesman, Customer,

Sample table: salesman

sale	sman_id		name		city	commis	sion
May N	5001	1	James Hoog	1	New York		0.15
	5002	1	Nail Knite	1	Paris	1	0.13
	5005	1	Pit Alex	1	London		0.11
	5006	1	Mc Lyon	1	Paris	i	0.14
	5007	1	Paul Adam	1	Rome	1	0.13
	5003	1	Lauson Hen	1	San Jose	1	0.12

Sample table: customer

<pre>customer_id </pre>	cust_name	1	city	1	grade salesma	1
3002	Nick Rimando	1	New York		100	
3007	Brad Davis	1	New York	i	200	
3005	Graham Zusi	1	California	1	200	
3008	Julian Green	1	London		300	
3004	Fabian Johnson	1	Paris	- 1	300	
3009	Geoff Cameron	1	Berlin	- 1	100	
3003	Jozy Altidor	1	Moscow		200	
3001	Brad Guzan	1	London		i	

Sample table: orders

ord_no	purch_amt	ord_date	customer_id	salesman ic
70001	150.5	2012-10-05	3005	5002
70009	270.65	2012-09-10	3001	5005
70002	65.26	2012-10-05	3002	5001
70004	110.5	2012-08-17	3009	5003
70007	948.5	2012-09-10	3005	5002
70005	2400.6	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001
70010	1983.43	2012-10-10	3004	5006
70003	2480.4	2012-10-10	3009	5003
70012	250.45	2012-06-27	3008	5002
70011	75.29	2012-08-17	3003	5007
70013	3045.6	2012-04-25	3002	5001

- Write a SQL statement to prepare a list with salesman name, customer name and their cities for the salesmen and customer who belongs to the same city.
- Write a SQL statement to make a list with order no, purchase amount, customer nam and their cities for those orders which order amount between 500 and 2000.
- 3. Write a SQL statement to know which salesman are working for which customer.
- Write a SQL statement to find the list of customers who appointed a salesman for the jobs who gets a commission from the company is more than 12%.
- Write a SQL statement to find the list of customers who appointed a salesman fo jobs who does not live in the same city where their customer lives, and gets a comr is above 12%.
- 6. Write a SQL statement to find the details of a order i.e. order number, order date, a of order, which customer gives the order and which salesman works for that custom how much commission he gets for an order.
- Write a SQL statement to make a list in ascending order for the customer who work through a salesman or by own.
- Write a SQL statement to make a list in ascending order for the customer who grade less than 300 and works either through a salesman or by own.
- 9. Write a SQL statement to make a report with customer name, city, order numb date, and order amount in ascending order according to the order date to find the any of the existing customers have placed no order or placed one or more orders.
- 10. Write a SQL statement to make a report with customer name, city, order number date, order amount salesman name and commission to find that either any of the customers have placed no order or placed one or more orders by their sales own.
- 11. Write a SQL statement to make a list in ascending order for the salesmen who we for one or more customer or not yet join under any of the customers.
- 12. Write a SQL statement to make a list for the salesmen who works either for or customer or not yet join under any of the customers who placed either one or m or no order to their supplier.
- 13. Write a SQL statement to make a list for the salesmen who either work for o customers or yet to join any of the customer. The customer may have placed, eithor orders on or above order amount 2000 and must have a grade, or he may placed any order to the associated supplier.
- 14. Write a SQL statement to make a cartesian product between salesman and contact each salesman will appear for all customer and vice versa.

Note - For questions 15 to 19 use sample table compitem mast

Sample table: company_mast

COM_ID COM_NAME

- 11 Samsung
- 12 iBall
- 13 Epsion
- 14 Zebronics
- 15 Asus
- 16 Frontech

Sample table: item_mast

PRO_ID	PRO_NAME	PRO_PRICE	PRO_CO
102 103 104 105 106 107 108 109	Mother Board Key Board ZIP drive Speaker Monitor DVD drive CD drive Printer Refill cartridge Mouse	3200 450 250 550 5000 900 800 2600 350 250	

- 15. Write a SQL query to display all the data from the item_mast, inclueach item's producer company.
- 16. Write a SQL query to display the item name, price, and company name
- 17. Write a SQL query to display the average price of items of each contains and the company.
- 18. Write a SQL query to display the names of the company whose prod price larger than or equal to Rs. 350.
- 19. Write a SQL query to display the name of each company along with their most expensive product.

Note – For questions 20 to 23 use the sample tables emp_deptmen, (
Sample table: emp_departmen

DPT_CODE	DPT_NAME	DPT_ALLOTMENT
57	IT	65000
	Finance	15000
	HR	240000
	RD	55000
89		75000

EMP_IDNO EMP_FNAME	EMP_LNAME	EMP_C
127323 Michale 526689 Carlos 843795 Enric 328717 Jhon 444527 Joseph 659831 Zanifer 847674 Kuleswar 748681 Henrey 555935 Alex 539569 George 733843 Mario 631548 Alan 839139 Maria	Robbin Snares Dosio Snares Dosni Emily Sitaraman Gabriel Manuel Mardy Saule Snappy Foster	

- 20. Write a query in SQL to display all the data of empl
- 21. Write a query in SQL to display the first name and the name and sanction amount for their departme
- 22. Write a query in SQL to find the first name an departments with a budget more than Rs. 50000.
- 23. Write a query in SQL to find the names of depart are working

LAB ASSIGNMENT-8

- select siname, cicustiname, sicity from salesman sicustomer e on sicity = cicity AND sisalesman. e. salesman-id;
- select 0.0401_no, 0.pwch_amt, c.cust_name, c.custerner, c
- 3. Select s.name As saleman_name, c.unt_name soleman & Join cuntomer c on s.saleman_id c.saleman_id;
- 4. select e-cust name From customer c Join sales 3 ON C-salesman-ial = 8-salesman ial WHERE 3-commission >0.12;
- 5. select count-name FROM customer c JOIN ,
 s on cogalermanid = society and society 70.12;
- 6. Select 0.0 Hd_no, 0.0 Hd_alate, 0. purch_amt,
 name, s.name, s.comission from order 0

 customer con o.customer_id = c.customer_id

 customer son o.salesman_id = s.salesman_ic
- 7. select count-name from entomer c 18FT JOI.
 OHOLON O ON countomer id = 0. unitomer id 0

 884 count-name ASC;

- zelect c.cust name trom enstames c 1811 o on countemerial = o customer-ial 1 (300 DROER BY cicust name Asc;
- errererere select court name, coity, o. ond no, o O. purch - amt FROM untomer c LEFT I o on c.contomer-id = o.contomer-id and D. OHOLEY - alate ASC;
 - 10. select court name, city, booked no, c o.purch_amt, s.name, s.commision from c. customer-ial = 0. customer-ial ORDER BY c
 - select siname FROM salesman & LEFT JOIN C ON 1. saleman-id = c. saleman-id ORDER P
 - select sname, count (coustomer_id), cou Exom sayouman & 1 fet I DOIN contomen 6 0. id = c. saleman-id LEFT JOHN OHOLONS O = 0. customer-id CHROUP BY S. name ORDEF ASG;
 - select sname, count coistince e-custome (0.049-40) EROM BOYGRUMAN & FEEL 201 e ON 3. salesman rd: c. salesman id c. ghade 13 NOT MULL OR 0. OHD _ no IS 1 BY 3-name ORDER BY 3-name ASC;
 - select siname As saluman name, ciunt thom solorwan 2 choss 2014 conjumen

- 15. SELECT i. *, c. * FROM item_ mait i Join compaine on i. PRO_com = c.com_Ib;
- 16. SELECT i. PRO_NAME, i. PRO_PRICE, c. com_ni item_ mast i Join company_mast c on = c. com_ID;
- 17. School com MAME, AND (1. PRO_ PRICE) As and-
- (8. Select c.coin- NAME FROM item_ most 1 It -mout C FON i_ PROM - COM = c.COM_ID OHR c.com - NAME HAVINION & AUGH CI.PRO_PRICE)
- 19. SELECT C.COM_NAME, i.PRO_ID, MAX CI.PRO_'

 item_mout i JOIN company_mout c ON i

 = c.com.ID CHROUP BY c.com_name, i.PRO_II

 By max-price DESC;
- 20. select 6.4, d.4 FROM emp-details e Jour
- only geton from of ON 6.6mb U. bb1 = 0.
- 22. select & EMP-FNAME, e emp-Lname FROM
 e JOIN emp-department of ON e-EMP
 code WHERE of DPT-ALLOTMENT > 50000

23. select al. DEPT_NAME FROM emp-details e JOIN

emp = alepasetment al ON e. EMP_DEPT = d. DPT-CODE

(e. EMP_IONO) > 2;

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LAB ASSIGNMENT 9

DBMS Lab (KCA - 252)

Assignments on Aggregate Function

Consider the following table to solve the queries.

Sample table: orders

ord_no	purch_amt	ord_date	customer_id	salesman_id
70001	150.5	2012-10-05	3005	5002
70009	270.65	2012-09-10	3001	5005
70002	65.26	2012-10-05	3002	5001
70004	110.5	2012-08-17	3009	5003
70007	948.5	2012-09-10	3005	5002
70005	2400.6	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001
70010	1983.43	2012-10-10	3004	5006
70003	2480.4	2012-10-10	3009	5003
70012	250.45	2012-06-27	3008	5002
70011	75.29	2012-08-17	3003	5007
70013	3045.6	2012-04-25	3002	5001

- write a SQL query to calculate total purchase amount of all orders. Return total pur amount.
- write a SQL query to calculate average purchase amount of all orders. Return av purchase amount.
- 3. write a SQL query to find the number of salespeople.
- 4. write a SQL query to find the maximum purchase amount.
- 5. write a SQL query to find the minimum purchase amount.
- write a SQL query to find the highest purchase amount ordered by each customer. R customer ID, maximum purchase amount.
- write a SQL query to find the highest purchase amount ordered by each customer particular date. Return, order date and highest purchase amount.
- 8. write a SQL query to find the highest purchase amount on '2012-08-17' by salesperson. Return salesperson ID, purchase amount.
- write a SQL query to find highest order (purchase) amount by each customer in a part order date. Filter the result by highest order (purchase) amount above 2000.00. R customer id, order date and maximum purchase amount.
- 10. write a SQL query to find the maximum order (purchase) amount in the range 2000, (Begin and end values are included.) by combination of each customer and order Return customer id, order date and maximum purchase amount.
- 11. write a SQL query to find the maximum order (purchase) amount by each customer customer ID should be in the range 3002 and 3007(Begin and end values are inclu-Return customer id and maximum purchase amount.
- write a SQL query to count all the orders generated on '2012-08-17'. Return numbers

Sample table: customer

customer_id cust_name	city grade sal
3002 Nick Rimando 3007 Brad Davis 3005 Graham Zusi 3008 Julian Green 3004 Fabian Johnson 3009 Geoff Cameron 3003 Jozy Altidor 3001 Brad Guzan	New York 100 New York 200 California 200 London 300 Paris 300 Berlin 100 Moscow 200

- 13. write a SQL query to count the number of customers.
- 14. write a SQL query to find the number of customers who got at least a grada activity.
- 15. write a SQL query to find the highest grade of the customers for each of city, maximum grade.

Sample table: salesman

salesman_id	name	city	commission
5001 5002 5005 5006 5007 5003	James Hoog Nail Knite Pit Alex Mc Lyon Paul Adam Lauson Hen	New York Paris London Paris Rome San Jose	0.15 0.13 0.11 0.14 0.13 0.12

16. write a SQL query to count number of salespeople who belongs to a city. F salespeople.

Sample table: item_mast

PRO_ID PRO_NAME	PRO_PRICE	PRO_COM
101 Mother Board 102 Key Board 103 ZIP drive 104 Speaker 105 Monitor 106 DVD drive 107 CD drive 108 Printer 109 Refill cartridge	3200 450 250 550 5000 900 800 2600 350 250	1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1
110 Mouse		

17. write a SQL query to count number of products where product price is h to 350. Return number of products.

Consider a table named Employee(Eid, Name, Dept, Salary, DOJ)
Solve the following queries.

- 18. Display the latest date on which an employee had joined.
- 19. Display the 1st date on which an employee had joined.
- 20. List out how many numbers of departments are there.
- 21. Display how many numbers of employees are there in MCA Departm
- 22. Display department wise maximum average salary.
- 23. Display the total number of employees in the organization.
- 24. Display department wise the numbers of employees working.

LAB ASSIGNMENT- 9

- 1. select sum (punch aint) From onders;
- 2. select Avoil punch-amt) FROM OHOLOUS;
- 3. select count constinct solumon-id) from
- 4. select MAX c purch aint) FROM OHICLUS;

opposite the state of the state

- 5. select MIN (purch amt) FROM orders;
- B. select customer-id, MAX (purch-amt) FR Orroup By customer-id;
- T. select customer-i'd, OHOL- alate, MA.
 FROM OHOLUS CHROUP BY CUSTOMER-id
- 8. Serect salerman-id, MAX [purch-an
- onders customer-id, ond-date, MAX conders chares antizember-id, und MAX church-antizemberthicen 2000
- 16. select customer-id, ord-date, M FROM Orders WHERE purch-ami 2000 and 6000 CHROUP BY CUS date;

- 11. Schect customer-ial, MAX (punch-amt) F WHERE customer-ial BETWEEN 3002 of CHROUP BY customer-ial;
- 12. Jelect COUNT (*) FROM OHOLOUS MIHERE OHOL- OF
- 13. select count (*) FROM customer;
- 14. select count (+) FROM customer MIHERE
- 15 select city, MAX(graple) FROM Unitomen
- 16 select city, count (*) From salaman
 - 17 select count (*) FROM item_mast his
 - 18 2 elect MAX (DOI) Exold Emblodes.
 - 19 select WIN (DOZ) EHOW Employee,
 - 20 select COUNT (DISTINCT DEPT) FROM
 - 57 Select count (*) from Emblodes

select Dept, MAX (AND) (salary)) FROM employee CHROUP BY DEPT ,

select count (+) FROM employee;

23. select Dept, count (*) FROM employee CHROUP BY Dept;

LAB ASSIGNMENT 10

DBMS Lab (KCA - 252)

Assignments on Sub Query

Create the following table and insert some records.
 Table Name: Employee

Field	Datatype		
Empld	Number		
Name	Varchar2		
DOJ	Date		
Jobid	Number		
Salary	Number		

Empld	Name	DOJ	Jobld	Salary
100	Aman Jian	17-June-2017	AD_PRES	24000.00
101	Yash Kumar	15-July-2019	AD_VP	17000.00
102	Ayushi	12-Aug-2017	IT_PROG	9000.00
103	Kamal	15-Sept-2016	IT_PROG	6000.00
105	Madhav Mohan	14-July-2018	IT_PROG	4000.00
106	Astha Sharma	27-June-2017	PU_CLERK	2500.00

Write the following queries over the said table

- 1.1 Write a query to display the name for those employees who gets n salary than the employee whose id is 104.
- 1.2 Write a query to display the name, salary, department id, job id for the employees who works in the same designation as the employee whose id is 103.
- 1.3 Write a query to display the name, salary, department id for t employees who earn such amount of salary which is the smallest salar any of the departments.
- 1.4 Write a query to display the employee details who are having the : date of birth as of employee having id 106.

LAB ASSIGNMENT-10

CREATE TABLE Employee (EmpId NUMBER PRIMAR KEY, Name VARCHARZ (50), DOJ DATE, JODId VARCHARZ (20) Salary NUMBER);

- 1.1 SELECT Name FROM Employee WHERE Salary > (
- Emptal = 103);

 Series Name, salary, Jostal From Employee MHERE

 Series Name, salary, Jostal From Employee MHERE
- 1.3 SELECT Name, Salary, Job Id FROM Employee salary = (SELECT MIN (Salary) FROM Employee
- I'A SELECT & FROM EMPLOYEE MHERE DOT = (2816CL,
- 1.5 Select & FROM Employee WHERE BOT> (SELECT DO? FROM Employee WHERE Emplo) = 102);