KIET GROUP OF INSTITUTIONS

DEPARTMENT OF COMPUTER APPLICATIONS

LAB ASSIGNMENT 5

DBMS Lab (KCA – 252)

PRASSAN VARSHNEY

ROLL NUMBER - 36

- 1. 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	Α	Ghaziabad	Rakesh	C-355	1
						Marg		
2	Manav	Mohan	Sharma	A	Ghaziabad	Raj	D-211	2
						nagar		
3	Chandra	Mohan	Batra	В	Meerut	Minto	A-201	3
						Road		
4	Rakesh	Chandra	Gupta	В	Kanpur	Nehru	A-145	
						Marg		
5	Sagar	Pratap	Singh	Α	Meerut	Gandhi	C-35	0
						marg		

- i) Display Roll Number and complete name of all the students Select Roll, F_Name|| ' ' || M_Name|| ' ' || L_Name AS full_name FROM students:
- ii) Display Roll Number, Name and complete address of all the students.

 Select Roll, F_Name|| '' || M_Name|| ''|| L_Name AS full_name, HouseNo||'
 '|| Area||"|| city as address from students;
- Display Roll number, Name of all the students. (Note The name should be displayed as A.K.Jain)
 SELECT Roll_Number, INITCAP(SUBSTR(Name, 1, 1)) || '.' || INITCAP(SUBSTR(SUBSTR(Name, INSTR(Name, ' ') + 1), 1, 1)) || '.' || INITCAP(SUBSTR(Name, INSTR(Name, '', 1, 1) + 1)) AS Name FROM Students;
- iv) Display all the student information according to ascending order of Section Select * from students order by section asc;
- v) Display all the student information according to descending order of Section. Select * from students order by section desc;
- vi) Sort all the records according to section and then according to First Name. Select * from students order by section asc, first_name asc;
- vii) Display Roll number, name and city of all the students. (Note City names should be left padded with 5 *s).

 Select roll_number, first_number, LPAD(city, length(city) + 5, '*') As padded_city from students;
- viii) Display those student details whose division hasnot been awarded. Select * from students where division is null:
- ix) Display the cities from where the students are from. Select distinct city from students;

x) 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)

Select Roll_number, first_name,

Case

When DIVISION = 1 then 'FIRST'

When DIVISION = 2 then 'SECOND'

When DIVISION = 3 Then 'Third'

When DIVISION=0 Then 'Fail'

Else 'NOT AWARDED'

END AS DIVISION

From students;

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)

Select Roll_Number, First_Name,

CASE Section

When 'A' THEN 1

When 'B' THEN 2

ELSE NULL

END AS section

From students;

3. Solve the following query

Empcode	Empname
E1	001Rajkumar
E2	Ramkumar002
E3	Ravikumar003

SELECT Empcode,
REGEXP_REPLACE(Empname, '\d+\$', '') AS Empname
FROM Employees;

Output should

Empcode	Empname
E1	Rajkumar
E2	Ramkumar
E3	Ravikumar

4. Solve the following query

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

SELECT CASE WHEN LENGTH(First_Name) > 1 THEN SUBSTR(First_Name, 1, 1) || '.' ELSE First_Name END || CASE WHEN LENGTH(Middle_Name) > 0 THEN ' ' || SUBSTR(Middle_Name, 1, 1) || '.' ELSE " END || ' ' || Last_Name AS Name FROM Names;

Output should

Name
P. K. Tiwari
A. K. Sharma
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

```
WITH Students (Sname, Marks) AS (
SELECT 'Raj', 65 FROM DUAL
UNION ALL
SELECT 'Amit', 32 FROM DUAL
UNION ALL
SELECT 'Sanjay', 45 FROM DUAL
UNION ALL
SELECT 'Rohit', 40 FROM DUAL
UNION ALL
SELECT 'Anil', 35 FROM DUAL
UNION ALL
SELECT 'Anil', 35 FROM DUAL
)

SELECT Sname,
CASE
WHEN Marks >= 35 THEN 'Pass'
ELSE 'Fail'
END AS Result
```

FROM Students;