**The objective of this lab is to:**

- Practice Single row functions
  - Numeric
  - Character
  - NVL

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Instructions:

- Work on this lab individually. Discussion is not allowed.
- Evaluation of tasks will be conducted in lab.
- Anyone caught being indulged in the act of plagiarism would be awarded an "F" grade in this lab.
- Evaluation will be considered final and you cannot debate for the marks. So, focus on performing the tasks when the time is given to you.
- **Allowed time: 1 hour and 30 minutes**
- Best of Luck!

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**Kindly paste the query as well as result table screenshot as a result of each task**

**Sample:**

**Display All the Employees from emp table**

**Solution:**

**Select * from emp**

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |
|-------|-------|-----|-----|----------|-----|------|--------|
| 7369 | SMITH | CLERK | 7902 | 12/17/1980 | 800 | - | 20 |
| 7499 | ALLEN | SALESMAN | 7698 | 02/20/1981 | 1600 | 300 | 30 |
| 7521 | WARD | SALESMAN | 7698 | 02/22/1981 | 1250 | 500 | 30 |
| 7566 | JONES | MANAGER | 7839 | 04/02/1981 | 2975 | - | 20 |
| 7654 | MARTIN | SALESMAN | 7698 | 09/28/1981 | 1250 | 1400 | 30 |

**Note:** You will be using following tables in your lab tasks.

- o  EMP (EMPNO, ENAME, JOB, SAL, HIREDATE, COMM, MGR, DEPTNO)
- o  DEPT (DEPTNO, DNAME, LOC)

## ✚ Perform the following tasks

## Task 01:                                                                                                  [20 Marks]

1. Write a query to display the no. of months an employee has worked from his hiring. Round off the no. of months.
2. List the employees those who joined in 1980.
3. List ename and Replace 'A' With '*' In All Employees' Name.
4. List the employees with salary greater than 1600 but should not be a manager or president.
5. Show the output of employees who has some commission. The output should be like "ward Is a Salesman with 500 commision". **(Make sure the output exactly matches in terms of alphabets case letters)**
6. List the employees whose name starts with **"J"** and end with **"S".**
7. List all the employees hired in leap years.
   *(A leap year is exactly divisible by 4 except for century years (years ending with 00). The century year is a leap year only if it is perfectly divisible by 400.)*
8. Display first 2 and last 2 letters of employees' name within a single column named "**formatted name**".
9. Display the emp-code for all the employees consisting of first three letters of their job followed by hyphen followed by last 2 digits of the empno.
10. List the lowest and second lowest salary using the 'Top clause'

## Task 02:                                                                                                  [18 Marks]

1. Count the number of 'A's in the name of each employee.
2. Display the name, empno and job of all employees who name has 2nd or 2nd last character is 'l'.
3. Display the name, salary and job title of all employees who are not working under any employee or their commission value is null.
4. Display all the employees whose salary is three-digit number, ending with zero.
5. Display the total salary (salary + comm) of each employee. Make sure that total salary of any of employee is not null.
6. List all the employees name those are having six characters in their Names and having salary between 1000 and 4500.
7. Find the first and last two characters of enames.
8. Display the output in the following format (you are not allowed to use concatenation operator `**||**`).

| Name -> Salary |
| --- |
| SMITH---->800 |

9. Get firstname of the student from the column std_name. (Table Name: **PUCIT**)
   Like: **if std_name is Muhammad Afaq Shuaib, output = Muhammad**

| First Name |
| --- |
| Muhammad |
| Hafiz |

## Task 03: (Viva)

1. A viva question from string manipulation function
   Concat, Substr, length, Instr, Ltrim, replace etc

***************BEST OF LUCK***************