Day 4

```
PRN : 200243020003
```

Single Row Functions

1. First Rewrite /practice all demo queries taught in session.

```
SELECT initcap(FIRST_NAME),LOWER(LAST_NAME) FROM EMPLOYEES;
SELECT UPPER('hello'),LOWER('bye') FROM dual;
SELECT first_name,last_name FROM EMPLOYEES WHERE lower(last_name)='king';
SELECT concat('hello ','world')   from dual;
SELECT substr('i love java',1,5) FROM dual;
SELECT instr('i love java','a') FROM dual;
SELECT REPLACE('i love java','l','j') from DUAL;
SELECT rpad(salary,6,'#') FROM EMPLOYEES;
SELECT lpad(salary,6,'#') FROM EMPLOYEES;
SELECT TRIM('j' from 'love java') from dual;
SELECT employee_id, concat(first_name,last_name) name
job_id,LENGTH(last_name),instr(last_name,'a') "Contains 'a'?" FROM
EMPLOYEES WHERE substr(job_id,4)='REP';
SELECT LENGTH(concat(first_name,last_name)) "length" FROM EMPLOYEES;
SELECT round(67.7) from dual;
SELECT round(67.745,2) from dual;
SELECT trunc(65.358,1) FROM DUAL;
SELECT MOD(25,5)FROM DUAL;
SELECT sysdate FROM DUAL;
SELECT months_between('01-sep-97','01-sep-96') "months" FROM DUAL;
SELECT add_months('01-sep-02',2) "month" FROM DUAL;
SELECT next_day(sysdate,'wed') from DUAL;
SELECT last_day('01-sep-95') FROM DUAL ;
SELECT round(sysdate,'month') FROM DUAL;
SELECT round(sysdate,'year') FROM DUAL;
SELECT hire_date,round(hire_date,'year') FROM EMPLOYEES;
SELECT hire_date,round(hire_date,'month') FROM EMPLOYEES;
SELECT hire_date,round(hire_date,'day') FROM EMPLOYEES;
```

2. Display full names of employees separated by space and initial letter of every word should be in capital, rename column as "Name"

```
SELECT
    concat(concat(first_name, ' '), last_name) "Name"
FROM
    EMPLOYEES;
```

3. Display last_name in capital letters

```
SELECT
    upper(last_name)
FROM
    EMPLOYEES;
```

4. Generate login_id for employees consisting upto 5 characters of first_name and initial letter first last_name and underscore as a separator

```
SELECT
    concat(concat(substr(first_name, 1, 5), '_'), substr(last_name, 1, 1))
FROM
    EMPLOYEES:
```

5. Display system date through query

```
SELECT
        sysdate
    FROM
        DUAL;
```

6. Display emp_id,last_name, annual salary rounded to nearest whole number .

```
SELECT
    employee_id,
    last_name,
    round(SALARY)
FROM
    EMPLOYEES;
```

7. Write query to display hike in salary by 15.5% and round to nearest whole number

```
SELECT
    first_name,
    salary,
    round(mod(salary, 15.5) * 100 + salary) hike
FROM
    EMPLOYEES;
```

8. Modify above query in different script file where you should also display revised salary i.e. old salary subtracted from new salary

```
SELECT
    first_name,
    salary,
    round(mod(salary, 15.5) * 100 + salary) hike,
    round(mod(salary, 15.5) * 100) diffrence
FROM
    EMPLOYEES;
```

9. Display last_name for employees where starting character will be prompted by user and the case should not affect to output

```
SELECT
    first_name,
    last_name
FROM
    EMPLOYEES
WHERE
    lower(last_name) = 'king';
```

10. Display last_name and length of last-name whose names start with 'J' or 'H' or 'T'. Sort data in alphabetical order of names

```
SELECT
    FIRST_NAME,
    LENGTH(last_name)
FROM
    EMPLOYEES
WHERE
    FIRST_NAME LIKE 'J%'
    OR FIRST_NAME LIKE 'H%'
    OR FIRST_NAME LIKE 'T%'
ORDER BY
    FIRST_NAME;
```

11. HR department wants to check for how many months every employee has worked with the organization sort data by order of months. (Hint: calculate months between todays date and hire_date)

```
SELECT
    first_name,
```

```
    HIRE_DATE,
    round(months_between (sysdate, HIRE_DATE)) "Months worked"
FROM
    EMPLOYEES;
```

12. Display last_name of employee and indicate the amount of their salaries with asterisks. Each asterisk signifies a thousand dollars sort data in desending order of salary. Eg: king earns 24,000 so 24 asterisks should be displayed and not the salary

```
SELECT
    last_name,
    concat(rpad(salary, 2, '*'), '****')
FROM
    EMPLOYEES;
```