

## Lab sheet 4

### PMDS506P Database Management systems.

Q1. Create a table EMPLOYEES with the attributes EMPNO, NAME, JOB, HIREDATE, SAL, DEPTID and populate it with the following data.

7369	SMITH	CLERK	17-DEC-19	800	20
7499	ALLEN	SALESMAN	20-FEB-19	1600	30
7521	WARD	SALESMAN	22-FEB-19	1250	30
7566	JONES	MANAGER	02-APR-19	2975	20
7654	MARTIN	SALESMAN	28-SEP-19	1400	30
7698	BLAKE	MANAGER	01-MAY-19	2850	30
7782	CLARK	MANAGER	09-JUN-19	2450	10
7788	SCOTT	ANALYST	19-APR-19	3000	20
7839	KING	PRESIDENT	17-NOV-19	5000	10

- 1) Find the minimum salary being given by the company.
- 2) Find the maximum salary given by the company.
- 3) Find the average salary being given by the company.
- 4) Find the total count of all the employees.
- 5) Find the total salary of all the employees.
- 6) Find the variance of the salary of the employees and display it.
- 7) Find the total salary of all the employees of each department (Hint : consider dept\_id).
- 8) Find the average salary of all the employees of each department (Hint : consider dept\_id).
- 9) Find the count of the employees in each job type where the salary >1000.
- 10) Find the department id whose total number of employees is greater than 3.
- 11) Find the next Monday of the hiredates of the employees who are clerks.

Q2. Create the following table named as sailors, and answer the following.

Sailor_id	Name	Rating	Age	Salary
1	Dustin	7	45	2345.645
2	Rusty	10	35	1345.763
3	Horatio	5	35	3456.726
4	Zorba	8	18	5400.003
5	Julius	5	25	34123.888

- a) List ratings and ages of all the sailors.
- b) List the distinct ratings among all the sailors.
- c) Find the name of all the sailors who are over 21 years old.
- d) Find the names and ratings of the sailors whose age is between 30 to 50.
- e) Write a query to round the salary of each sailor to the nearest whole number.
- f) Write a query to truncate the salary of each sailor to two decimal places.
- g) Write a query to find the square of the ratings of the sailors and display it along with their names.
- h) Write suitable query to display all sailors with even numbered sailor id.
- i) Write an SQL query to find the latest date from the two dates, 11-05-1988 and 12-06-1989.
- j) Write three SQL query to round of the date 12/05/2023 16:47:00 to the nearest date, month and year formats separately.
- k) Find the number of months between the two dates 23-05-1985 and 24-11-2020.
- l) Write a query to display the remainder when each sailors's salary is divided by 100.
- m) Change all lower-case letters in the names of the sailors to uppercase and display  
Ans: UPDATE sailors SET name = UPPER (name);
- n) Find the sailor with the longest name using SQL query.
- o) Concatenate the name and age of a sailors and display the results.

Q3. From the table created in Q1,

- a) Create a view Empview with the columns name salary and deptno.
- b) Create a view Empview 1 in read only mode.
- c) Add a tuple to your view Empview and Empview1 and check the outputs.
- d) Check the table EMPLOYEES whether the tuple you added to Empview is added or not.
- e) Delete tuples from the view Empview where deptno is 20;
- f) Modify the tuple with name Allen as Sahrikh in the view Empview.