ADBMS ASSIGNMENT 3

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LAB PRACTICE ASSIGNMENT: Create a table EMPLOYEE with following schema:
(Emp_no, E_name, E_address, E_ph_no, Dept_no, Dept_name,Job_id, Designation , Salary)

Ans: create database Assignment3;

use Assignment3;

create table Employee3(emp_no int , emp_name varchar(30),emp_addr varchar(30),emp_phone numeric,emp_join_date date,dept_no int,

dept_name varchar(40),job_id int, designation varchar(20),salary float);

desc Employee3;

alter table Employee3 modify emp_no char(5);

alter table Employee3 modify dept_no char(5);

Field	Type	Null	Key	Default	Extra
emp_no	char(5)	YES		NULL	
Emp_name	varchar(30)	YES		NULL	
Emp_addr	varchar(30)	YES		NULL	
Emp_phone	decimal(10,0)	YES		NULL	
Emp_join_date	date	YES		NULL	
dept_no	char(5)	YES		NULL	
Dept_name	varchar(40)	YES		NULL	
Job_id	int	YES		NULL	
Designation	varchar(20)	YES		NULL	
salary	float	YES		NULL	

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

emp_no	emp_name	emp_addr	emp_phone	emp_join_date	dept_no	dept_name	job_id	designation	salary
E1	Aditya	Pune	9421697781	1990-03-08	D1	IT	7890	IT PROFF	94000
E2	Rushi	Junnar	7894561233	1979-03-08	D1	IT	7890	MANAGER	84000
E3	Pavan	Pune	7418529633	1981-03-08	D10	FINANCE	12345	CLERK	30000
E4	Arpita	Solapur	9876543215	1991-03-08	D1	FINANCE	12345	PRESIDENT	80000
E5	Esha	Satara	9517534568	1981-12-08	D10	MARKETING	6789	CLERK	30000
E6	Tejas	Sangli	8426759135	1981-01-19	D10	MARKETING	6789	ANALYST	68000
E7	Pratik	Satara	9731468255	1981-12-05	D20	SALES	3456	PRESIDENT	95000
E8	Akash	Pune	7531594862	1981-07-11	D20	SALES	3456	ANALYST	66000
E9	Aarya	Solpaur	9431678462	1990-05-01	D16	IT	7890	MGR	85000
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

1. List the E_no, E_name, Salary of all employees working for MANAGER.

 Ans: select * from Employee3;

select emp_no,emp_name,salary from Employee3 where designation='Manager';

emp_no	emp_name	salary
E2	Rushi	84000
NULL	NULL	NULL

2. Display all the details of the employee whose salary is more than the Sal of any IT PROFF.

Ans: select * from Employee3 where salary > 88000;

emp_no	emp_name	emp_addr	emp_phone	emp_join_date	dept_no	dept_name	job_id	designation	salary
E1	Aditya	Pune	9421697781	1990-03-08	D1	IT	7890	IT PROFF	94000
E7	Pratik	Satara	9731468255	1981-12-05	D20	SALES	3456	PRESIDENT	95000
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

3. List the employees in the ascending order of Designations of those joined after 1981.

Ans: select * from Employee3 where emp_join_date >'1981-12-31' order

by Designation asc ;

emp_no	Emp_name	Emp_addr	Emp_phone	Emp_join_date	dept_no	Dept_name	Job_id	Designation	salary
E1	Sanika	Yeola	9267385790	2018-03-08	D1	IT	12345	IT PROFF	88000
E10	Harish	Vaijapur	880099790	1990-05-01	D1	IT	12345	MGR	64000
E4	Shivanya	Nashik	9266685790	1991-03-08	D10	Finance	6789	President	80000

4. List the employees along with their Experience and Daily Salary.

Ans: select emp_no, emp_name, Salary, datediff(current_date, emp_join_date) as Experience_in_days, Salary / 30 as Daily_Salary from Employee3;

emp_no	emp_name	Salary	Experience_in_days	Daily_Salary
E1	Aditya	94000	12673	3133.3333333333335
E2	Rushi	84000	16691	2800
E3	Pavan	30000	15960	1000
E4	Arpita	80000	12308	2666.6666666666665
E5	Esha	30000	15685	1000
E6	Tejas	68000	16008	2266.6666666666665
E7	Pratik	95000	15688	3166.6666666666665
E8	Akash	66000	15835	2200
E9	Aarya	85000	12619	2833.3333333333335

5. List the employees who are either 'CLERK' or 'ANALYST' .

Ans: select * from employee3 where designation='CLERK' or designation='ANALYST';

emp_no	emp_name	emp_addr	emp_phone	emp_join_date	dept_no	dept_name	job_id	designation	salary
E3	Pavan	Pune	7418529633	1981-03-08	D10	FINANCE	12345	CLERK	30000
E5	Esha	Satara	9517534568	1981-12-08	D10	MARKETING	6789	CLERK	30000
E6	Tejas	Sangli	8426759135	1981-01-19	D10	MARKETING	6789	ANALYST	68000
E8	Akash	Pune	7531594862	1981-07-11	D20	SALES	3456	ANALYST	66000
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

6. List the employees who joined on 1-MAY-81, 3-DEC-81, 17-DEC-81,19-JAN-80 .

Ans : select * from employee3 where emp_join_date IN('1981-05-01','1981-12-03', 1981-12-17 , '1980-01-19');

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

emp_no	emp_name	emp_addr	emp_phone	emp_join_date	dept_no	dept_name	job_id	designation	salary
E1	Aditya	Pune	9421697781	1981-05-01	D1	IT	7890	IT PROFF	94000
E5	Esha	Satara	9517534568	1981-12-03	D10	MARKETING	6789	CLERK	30000
E9	Aarya	Solpaur	9431678462	1980-01-19	D16	IT	7890	MGR	85000
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

7. List the employees who are working for the Deptno 10 or20.

Ans: select * from Employee3 where dept_no ='D10' OR dept_no='D20';

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

emp_no	emp_name	emp_addr	emp_phone	emp_join_date	dept_no	dept_name	job_id	designation	salary
E3	Pavan	Pune	7418529633	1981-03-08	D10	FINANCE	12345	CLERK	30000
E5	Esha	Satara	9517534568	1981-12-03	D10	MARKETING	6789	CLERK	30000
E6	Tejas	Sangli	8426759135	1981-01-19	D10	MARKETING	6789	ANALYST	68000
E7	Pratik	Satara	9731468255	1981-12-05	D20	SALES	3456	PRESIDENT	95000
E8	Akash	Pune	7531594862	1981-12-17	D20	SALES	3456	ANALYST	66000
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

8. List the Enames that are starting with 'S' .

Ans: select Emp_name from Employee3 where emp_name LIKE 'S%';

Result Grid		
	Emp_name	
▶	Shreyas	
	Sanika	
	Shruti	

9. Write a SQL query to find the highest salary. Return the highest salary.

Ans: Select MAX(salary) From Employee3;

Result Grid	
	MAX(salary)
▶	95000

10. Display the name and the first five characters of name(s) starting with 'H' . List all the emps except 'PRESIDENT' & 'MGR" in asc order of Salaries.

Ans : select Emp_name, substr(Emp_name,1,5) from Employee3 where Emp_name like 'H%';

Result Grid		Filter Rows:	
	Emp_name	substr(Emp_name,1,5)	
▶	Harsh	Harsh	
	Hari	Hari	

Ans : * from Employee3 where designation NOT IN ('President','MGR') order by salary asc;

emp_no	emp_name	emp_addr	emp_phone	emp_join_date	dept_no	dept_name	job_id	designation	salary
E3	Shreyas	Pune	7418529633	1981-03-08	D10	FINANCE	12345	CLERK	30000
E5	Hari	Satara	9517534568	1981-12-03	D10	MARKETING	6789	CLERK	30000
E8	Shruti	Pune	7531594862	1981-12-17	D20	SALES	3456	ANALYST	66000
E6	Sanika	Sangli	8426759135	1981-01-19	D10	MARKETING	6789	ANALYST	68000
E2	Harsh	Junnar	7894561233	1981-12-17	D1	IT	7890	MANAGER	84000
E1	Aditya	Pune	9421697781	1981-05-01	D1	IT	7890	IT PROFF	94000
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

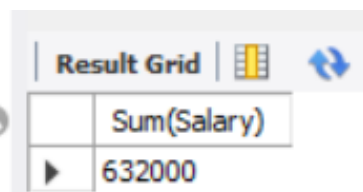11. Display the Minimum & Maximum Salary and Experience of the employee.

Ans :

SELECT dept_name,

   MIN(salary) AS Min_Salary,

   MAX(salary) AS Max_Salary,

   FLOOR(DATEDIFF(CURRENT_DATE, MIN(emp_join_date)) / 365) AS Min_Experience,

   FLOOR(DATEDIFF(CURRENT_DATE, MAX(emp_join_date)) / 365) AS Max_Experience

FROM employee3

GROUP BY   dept_name;

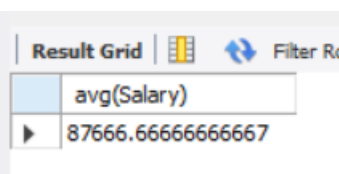| dept_name	Min_Salary	Max_Salary	Min_Experience	Max_Experience
IT	84000	94000	44	42
FINANCE	30000	80000	43	33
MARKETING	30000	68000	43	42
SALES	66000	95000	42	42

12. Display the total salary of all employees.

Ans : Select Sum(Salary) from Employee3 ;

Sum(Salary)
632000

13. Write a query to display the average salary of employees working in IT department.

Ans : select avg(Salary) from Employee3 where dept_name='IT';

avg(Salary)
87666.66666666667

14. Display the Distinct salary of an employee.

Ans: select distinct salary from Employee3;

salary
94000
84000
30000
80000
68000
95000
66000
85000