

School Of Computer Science and Engineering

ASSIGNMENT 3 (Winter Sem 2021-2022)

Course Code: CSE2007 Course Title: Database Management Systems

Faculty Name: Manomita Chakraborty (70296)

Aim: To understand different operators and types of functions in SQL

Consider the following tables:

Table Name: Employee

EMP_ID	EMP_NAME	DESIGNATI ON	MANAGER_ ID	DOJ	DEPT_ID	SALARY	GENDER
1008	Kiran	Principal	1008	1978-02-	DEPT_100	99000.00	M
				01	4		
1001	Akash	Salesman	1008	1991-07- 15	DEPT_100 3	35000.00	M
1002	Rishabh	Manager	1008	1992-05- 23	DEPT_100 1	65000.00	M
1004	Ridhi	Manager	1008	1987-11- 22	DEPT_100 1	85000.00	F
1003	Rihan	Analyst	1004	1991-07- 15	DEPT_100 1	55000.00	M
1007	Seema	Manager	1008	1991-07- 15	DEPT_100 1	65000.00	F
1005	Sajal	Salesman	1007	1991-07- 15	DEPT_100 3	35000.00	M
1006	Biki	Salesman	1002	1999-11- 26	DEPT_100 3	25000.00	F

Table Name: Department

DEPT_ID	DEPT_NAME	DEPT_LOCATION	Phn_Num
DEPT_1001	Human Resource	Delhi	1111
DEPT_1002	Production	Kolkata	2222
DEPT_1003	Marketing	Kerala	3333
DEPT_1004	Audit	Noida	4444
DEPT_1005	Finance	Andhra Pradesh	5555

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CREATE TABLE EMPLOYEE 20BCE7236(
EMP ID NUMBER (4),
EMP NAME CHAR (9),
DESIGNATION CHAR(10),
MANAGER ID NUMBER (4),
DOJ DATE,
DEPT_ID VARCHAR(10),
SALARY NUMBER (7),
GENDER CHAR(1)
CREATE TABLE DEPARTMENT 20BCE7236(
DEPT ID VARCHAR(10),
DEPT NAME CHAR(15),
DEPT LOCATION CHAR (15),
Phn Num NUMBER(6)
);
INSERT INTO EMPLOYEE 20BCE7236 VALUES(1008, 'Kiran', 'Principal', 1008, '01-FEB-1978', 'DEPT 1004', 99000, 'M');
INSERT INTO EMPLOYEE_20BCE7236 VALUES(1001, 'Akash', 'Salesman', 1008, '15-JUL-1991', 'DEPT_1003', 35000.00, 'M');
INSERT INTO EMPLOYEE 20BCE7236 VALUES(1002, 'Rishabh', 'Manager', 1008, '23-MAY-1991', 'DEPT 1001', 65000.00, 'M');
INSERT INTO EMPLOYEE 20BCE7236 VALUES(1004, 'Ridhi', 'Manager', 1008, '22-NOV-1987', 'DEPT 1001', 85000.00, 'F');
INSERT INTO EMPLOYEE 20BCE7236 VALUES(1003, 'Rihan', 'Analyst', 1004, '15-JUL-1991', 'DEPT 1001', 55000.00, 'M');
INSERT INTO EMPLOYEE 20BCE7236 VALUES(1007, 'Seema', 'Manager', 1008, '15-JUL-1991', 'DEPT 1001', 65000.00, 'F');
INSERT INTO EMPLOYEE 20BCE7236 VALUES(1005, 'Sajal', 'Salesman', 1007, '15-JUL-1991', 'DEPT 1003', 35000.00, 'M');
INSERT INTO EMPLOYEE 20BCE7236 VALUES(1006, 'Biki', 'Salesman', 1002, '26-NOV-1999', 'DEPT 1003', 25000.00, 'F')
INSERT INTO EMPLOYEE 20BCE7236 VALUES(1005, 'Sajal', 'Salesman', 1007, '15-JUL-1991', 'DEPT 1003', 35000.00, 'M');
INSERT INTO EMPLOYEE 20BCE7236 VALUES(1006, 'Biki', 'Salesman', 1002, '26-NOV-1999', 'DEPT 1003', 25000.00, 'F')
INSERT INTO DEPARTMENT 20BCE7236 VALUES ('DEPT 1001', 'Human Resource', 'Delhi', 1111);
INSERT INTO DEPARTMENT 20BCE7236 VALUES ('DEPT 1002', 'Production', 'Kolkata', 2222);
INSERT INTO DEPARTMENT 20BCE7236 VALUES ('DEPT 1003', 'Marketing', 'Kerala', '3333');
INSERT INTO DEPARTMENT 20BCE7236 VALUES('DEPT 1004', 'Audit', 'Noida', '4444');
INSERT INTO DEPARTMENT 20BCE7236 VALUES('DEPT 1005', 'Finance', 'Andhra Pradesh', '5555');
SELECT COUNT(*) FROM EMPLOYEE 20BCE7236 WHERE GENDER = 'F';
SELECT DEPT ID, COUNT(*) AsTotal Employee from EMPLOYEE 20BCE7236 group by DEPT ID;
SELECT count(*) from EMPLOYEE 20BCE7236 where DESIGNATION = 'Manager';
SELECT DEPT ID, AVG(Salary) from EMPLOYEE 20BCE7236 group by DEPT ID;
SELECT max(salary) from EMPLOYEE 20BCE7236 group by GENDER;
SELECT * from EMPLOYEE 20BCE7236 where SALARY>35000 order by SALARY ASC;
SELECT COUNT(*) AS S 35000 SALARY 95000 FROM EMPLOYEE 20BCE7236 WHERE SALARY>=35000 AND SALARY<=95000;
SELECT min(salary) from EMPLOYEE 20BCE7236 group by DEPT ID;
SELECT * from EMPLOYEE 20BCE7236 order by DOJ DESC;
SELECT DEPT ID, Max(Salary) from EMPLOYEE 20BCE7236 group by DEPT ID;
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Questions:

How many female employees are there?
 Select count(*) from employee where Gender = 'F';

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SELECT COUNT(*) FROM EMPLOYEE_20BCE7236 WHERE GENDER = 'F';

SELECT DEPT_ID, COUNT(*) AsTotal_Employee from EMPLOYEE_20BCE7236 gro

SELECT count(*) from EMPLOYEE_20BCE7236 where DESIGNATION = 'Manage

SELECT DEPT_ID, AVG(Salary) from EMPLOYEE_20BCE7236 group by DEPT_ID

SELECT max(salary) from EMPLOYEE_20BCE7236 group by GENDER;

SELECT * from EMPLOYEE_20BCE7236 where SALARY>35000 order by SALARY

SELECT COUNT(*) AS S_35000_SALARY_95000 FROM EMPLOYEE_20BCE7236 WHE

SELECT min(salary) from EMPLOYEE_20BCE7236 group by DEPT_ID;

SELECT * from EMPLOYEE_20BCE7236 order by DOJ DESC;

SELECT DEPT_ID, Max(Salary) from EMPLOYEE_20BCE7236 group by DEPT_ID

SCRIPT Output * Query Result *

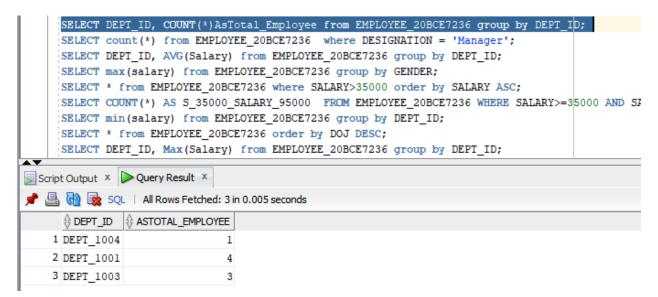
Query Result *

Query Result *

COUNT(*)

1 3
```

Print the Department Id and total number of employees as Total_Employee in each department.
 SELECT DEPT_ID, count(*) As Total_Employee from employee group by DEPT_ID;



How many employees work as Manager?
 SELECT count(*) from employee where Designation = 'Manager';

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SELECT count(*) from EMPLOYEE_20BCE7236 where DESIGNATION = 'Manager';

SELECT DEPT_ID, AVG(Salary) from EMPLOYEE_20BCE7236 group by DEPT_ID;

SELECT max(salary) from EMPLOYEE_20BCE7236 group by GENDER;

SELECT * from EMPLOYEE_20BCE7236 where SALARY>35000 order by SALARY ASC;

SELECT COUNT(*) AS S_35000_SALARY_95000 FROM EMPLOYEE_20BCE7236 WHERE SA

SELECT min(salary) from EMPLOYEE_20BCE7236 group by DEPT_ID;

SELECT * from EMPLOYEE_20BCE7236 order by DOJ DESC;

SELECT DEPT_ID, Max(Salary) from EMPLOYEE_20BCE7236 group by DEPT_ID;

Script Output * Query Result *

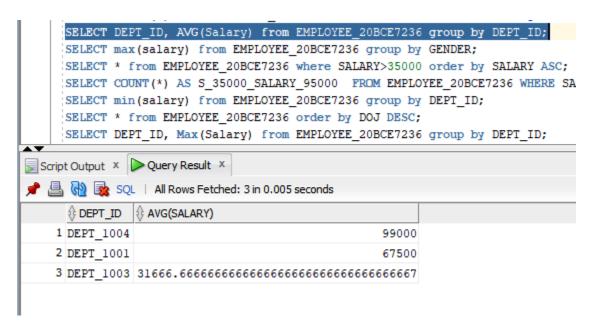
Query Result *

Query Result *

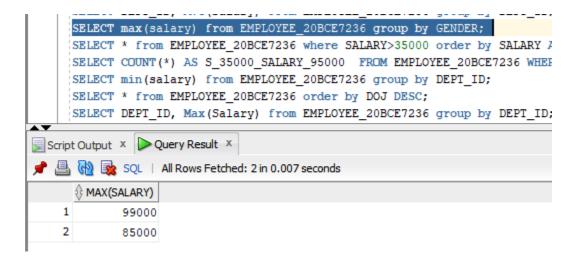
COUNT(*)

1 3
```

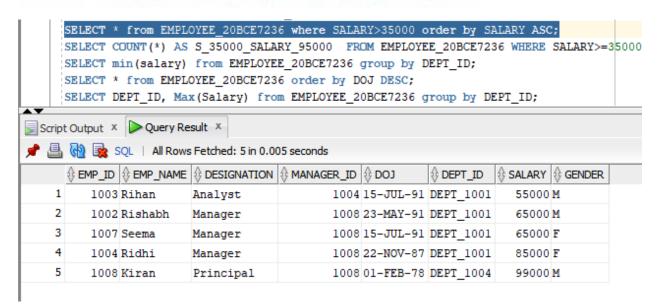
4. What is the average salary of each department? Also display the department Ids. SELECT DEPT_ID, AVG(Salary) from employee group by DEPT_ID;



Display details of the male and the female employees who get highest salary.
 SELECT max(salary) from employee group by Gender;

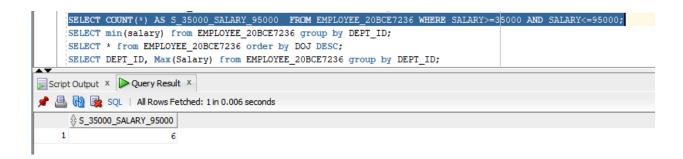


Display the employee details in ascending order of salary whose salary is > 35000.
 SELECT * from employee where salary>35000 order by Salary ASC;



7. How many employees are paid between 35000 to 950000? Display the result with the column name as '35000<Salary<95000'.

SELECT count(*) As '35000<Salary<95000' from employee where salary>=35000 and salary<=95000;

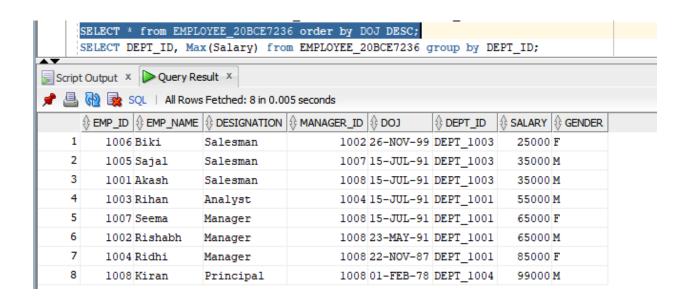


8. Display the employee details of each department who get lowest salary.

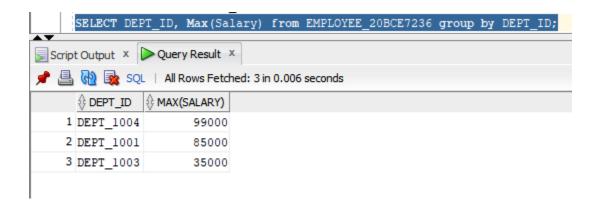
SELECT min(salary) from employee group by DEPT_ID;



 Display the employee details with decreasing order of their joining date SELECT * from employee order by DOJ DESC;



10. What is the Maximum salary of each department? SELECT DEPT_ID, Max(Salary) from employee group by DEPT_ID;



20BCE7236 S.B.ASHRITH