

# ASSIGNMENT -5 (Winter Sem 2021-2022)

Course Code: CSE2007

Course Title: DBMS

Faculty Name: Manomita Chakraborty (70296)

Date: 06-05-2022

Student Name: MAJJIGA JASWANTH

Reg No: 20BCD7171

Consider the following schema:

Table Name: Employee

Attribute	Data Type		
First Name	VARCHAR2(15)		
Mid Name	CHAR(2)		
Last Name	VARCHAR2(15)		
SSN Number	CHAR(9)		
Birthday	DATE		
Address	VARCHAR2(50)		
Sex	CHAR(1)		
Salary	NUMBER (7)		
Supervisor SSN	CHAR(9)		
Department Number	NUMBER (5)		

#### **Employee**

∯ FIRST_NAM	E ∯ MID_NAME	↓ LAST_NAME	♦ SSN_NUMBER	BIRTHDAY		∯ SEX	∯ SALARY		DEPARTMENT_NUMBER
Doug	Е	Gilbert	554433221	09-06-60	11 S 59 E, Salt Lake City, UT	M	80000	(null)	3
Јоусе	(null)	PAN	543216789	07-02-78	35 S 18 E, Salt Lake City, UT	F	70000	(null)	2
Frankin	T	Wong	333445555	08-12-45	638 Voss, Houston, TX	M	40000	554433221	5
Jennifer	S	Wallace	987654321	20-06-31	291 Berry, Bellaire, TX	F	43000	554433221	4
Johny	В	Smith	123456789	09-01-55	731 Fondren, Houston, TX	M	30000	333445555	5
Ramesh	K	Narayan	666884444	15-09-52	975 Fire Oak, Humble, TX	M	38000	333445555	5
Јоусе	A	English	453453453	31-07-62	5631 Rice, Houston, TX	F	25000	333445555	5
James	Е	Borg	888665555	10-11-27	450 Stone, Houston, TX	M	55000	543216789	1
Alicia	J	Zelaya	999887777	19-07-58	3321 Castle, Spring, TX	F	25000	987654321	4
Ahmad	V	Jabbar	987987987	29-03-59	980 Dallas, Houston, TX	M	25000	987654321	4

CREATE TABLE EMPLOYEE\_20BCD7171 (FIRST\_NAME VARCHAR(15),MID\_NAME CHAR(2),LAST\_NAME VARCHAR(15),SSN\_NUMBER CHAR(9),

BIRTHDAY DATE, ADDRESS VARCHAR2(50), SEX CHAR(1), SALARY NUMBER(7), SUPERVISOR SSN CHAR(9), DEPARTMENT NUMBER NUMBER(5));

CREATE TABLE DEPARTMENT\_20BCD7171 (DEPT\_NAME VARCHAR2(15),DEPT\_NO NUMBER (5),MANAGERSSN CHAR (9),MANAGESTARTDATE DATE);

CREATE TABLE PROJECT\_20BCD7171(PROJECTNAME VARCHAR(15), PROJECTNUMBER NUMERIC(5), PROJECTLOCATION VARCHAR(15), DEPT\_NO NUMERIC(5));

#### **Table Name: Department**

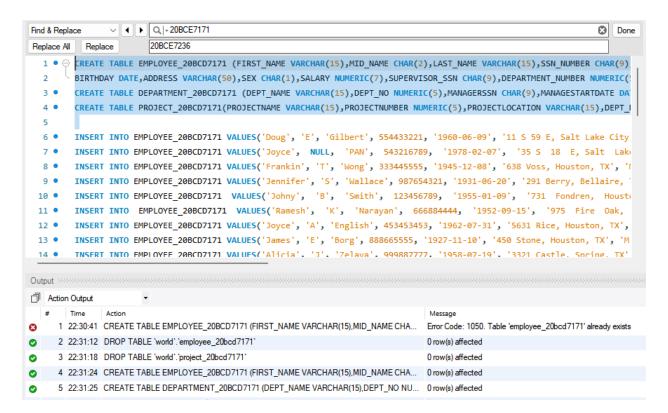
Attribute	Data Type
Department Name	Varchar2(15)
Department Number	Number(5)
ManagerSSN	CHAR(9)
ManageStartDate	DATE

### **Department**

DEPT_NAME	DEPT_NO		
Administration	2	543216789	04-01-99
Headquarter	3	554433221	22-09-55
Finance	4	987654321	01-01-85
Research	5	333445555	22-05-78

Table Name: Project

Attribute	Data Type
Project Name	VARCHAR2(15)
Project Number	NUMBER(5)
Project Location	VARCHAR2(15)
Department Number	NUMBER(5)



#### **Project**

₱ PROJECTNAME	₱ PROJECTNUMBER	♦ PROJECTLOCATION	
ProjectA	3388	Houston	1
ProjectB	1945	Salt Lake City	3
ProjectC	6688	Houston	5
ProjectD	2423	Bellaire	4
ProjectE	7745	Sugarland	5
ProjectF	1566	Salt Lake City	3
ProjectG	1234	New York	2
ProjectH	3467	Stafford	4
ProjectI	4345	Chicago	1
ProjectJ	2212	San Francisco	2

INSERT INTO EMPLOYEE\_20BCD7171 VALUES('Doug', 'E', 'Gilbert', 554433221, '1960-06-09', '11 S 59 E, Salt Lake City, UT', 'M', 80000, NULL, 3);

INSERT INTO EMPLOYEE\_20BCD7171 VALUES('Joyce', NULL, 'PAN', 543216789, '1978-02-07', '35 S 18 E, Salt LakeCity, UT', 'F', 70000, NULL, 2);

INSERT INTO EMPLOYEE\_20BCD7171 VALUES('Frankin', 'T', 'Wong', 333445555, '1945-12-08', '638 Voss, Houston, TX', 'M', 40000, 554433221, 5);

INSERT INTO EMPLOYEE\_20BCD7171 VALUES('Jennifer', 'S', 'Wallace', 987654321, '1931-06-20', '291 Berry, Bellaire, TX', 'F', 43000, 554433221, 4);

INSERT INTO EMPLOYEE\_20BCD7171 VALUES('Johny', 'B', 'Smith', 123456789, '1955-01-09', '731 Fondren, Houston, TX', 'M', 30000, 333445555, 5);

INSERT INTO EMPLOYEE\_20BCD7171 VALUES('Ramesh', 'K', 'Narayan', 666884444, '1952-09-15', '975 Fire Oak, Humble, TX', 'M', 38000, 333445555, 5);

INSERT INTO EMPLOYEE\_20BCD7171 VALUES('Joyce', 'A', 'English', 453453453, '1962-07-31', '5631 Rice, Houston, TX', 'F', 25000, 333445555, 5);

INSERT INTO EMPLOYEE\_20BCD7171 VALUES('James', 'E', 'Borg', 888665555, '1927-11-10', '450 Stone, Houston, TX', 'M', 55000, 543216789, 1);

INSERT INTO EMPLOYEE\_20BCD7171 VALUES('Alicia', 'J', 'Zelaya', 999887777, '1958-07-19', '3321 Castle, Spring, TX', 'F', 25000, 987654321, 4);

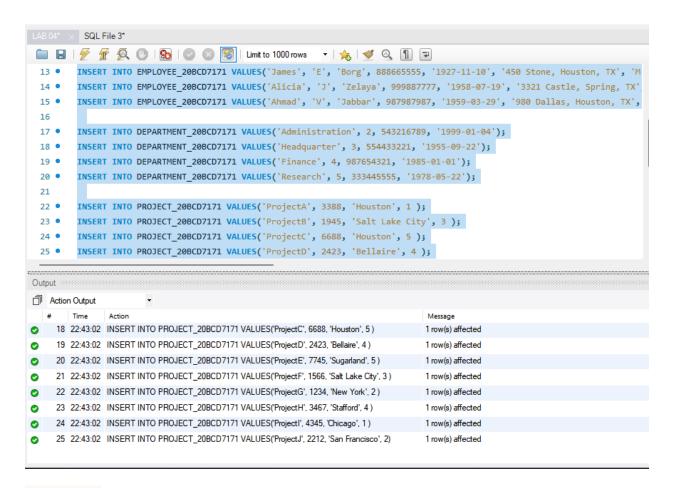
INSERT INTO EMPLOYEE\_20BCD7171 VALUES('Ahmad', 'V', 'Jabbar', 987987987, '1959-03-29', '980 Dallas, Houston, TX', 'M', 25000, 987654321, 4);

INSERT INTO DEPARTMENT\_20BCD7171 VALUES('Administration', 2, 543216789, '1999-01-04');

INSERT INTO DEPARTMENT\_20BCD7171 VALUES('Headquarter', 3, 554433221, '1955-09-22');

INSERT INTO DEPARTMENT\_20BCD7171 VALUES('Finance', 4, 987654321, '1985-01-01');

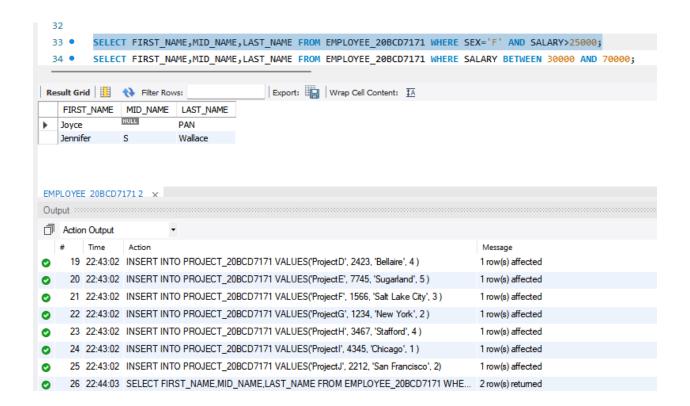
INSERT INTO DEPARTMENT\_20BCD7171 VALUES('Research', 5, 333445555, '1978-05-22');



#### Questions

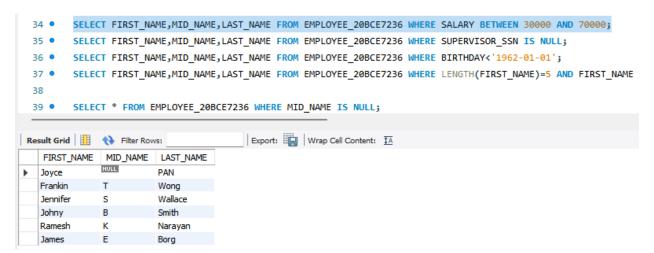
1. Find the female employee names having salary greater than Rs. 25000.

SELECT FIRST\_NAME,MID\_NAME,LAST\_NAME FROM EMPLOYEE\_20BCD7171 WHERE SEX='F' AND SALARY>25000;



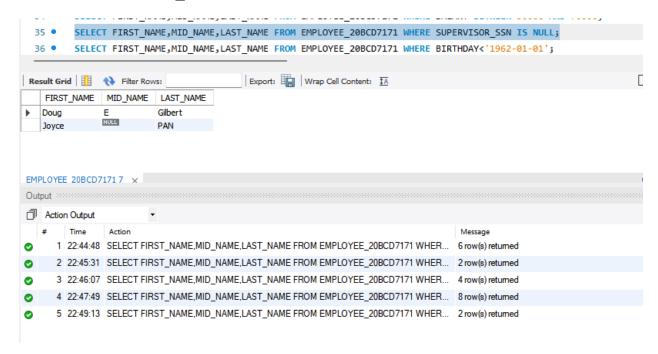
2. Find the employee names whose salary falls in the range of 30000 and 70000.

SELECT FIRST\_NAME,MID\_NAME,LAST\_NAME FROM EMPLOYEE\_20BCD7171 WHERE SALARY > 30000 AND SALARY < 70000;



3. Find all the employees who have no supervisor.

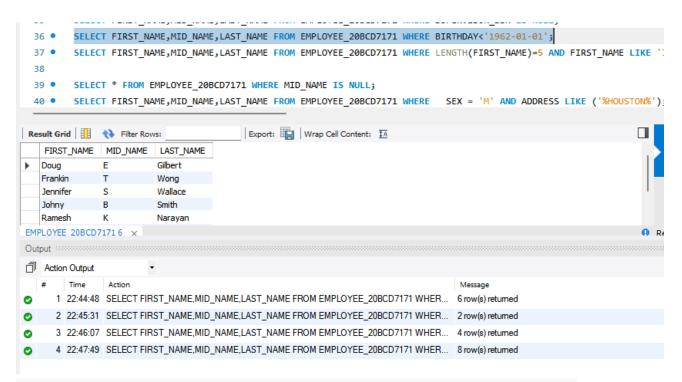
SELECT FIRST\_NAME,MID\_NAME,LAST\_NAME FROM EMPLOYEE\_20BCD7171
WHERE SUPERVISOR\_SSN IS NULL;



4.Get the employee names whose birthday is not later than 1962.

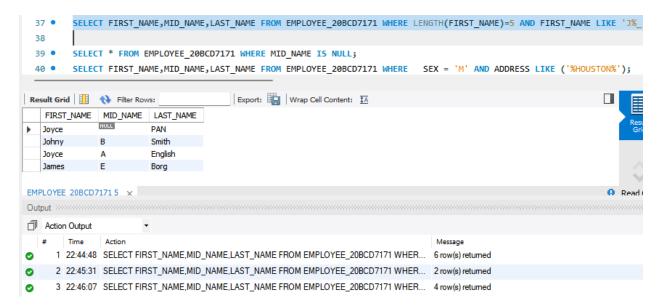
SELECT FIRST\_NAME,MID\_NAME,LAST\_NAME FROM EMPLOYEE\_20BCD7171

WHERE BIRTHDAY < '01-JAN-1962';



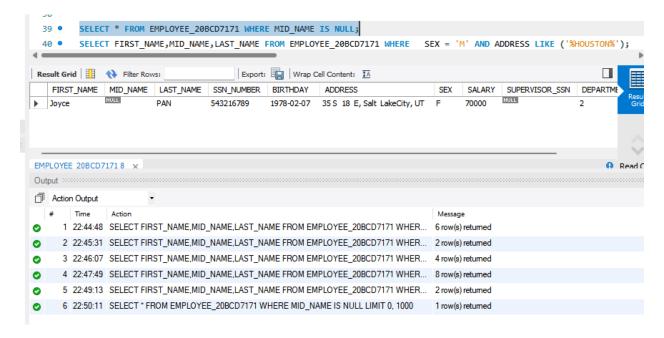
5.Retrieve the employee names whose first name start with 'J' and have 5 characters intotal.

SELECT FIRST\_NAME,MID\_NAME,LAST\_NAME FROM EMPLOYEE\_20BCD7171
WHERE LENGTH(FIRST\_NAME)=5 AND FIRST\_NAME LIKE 'J%';



6. Find the employee details whose middle initial is null.

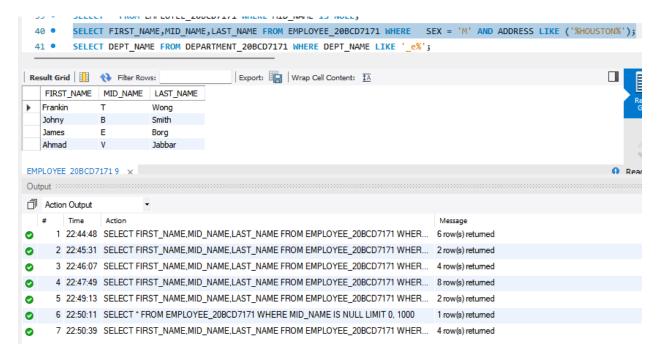
## SELECT FIRST\_NAME,MID\_NAME,LAST\_NAME FROM EMPLOYEE\_20BCD7171 WHERE MID\_NAME IS NULL;



7.Get the male employee details whose address contains sub string 'Houston'.

SELECT FIRST\_NAME,MID\_NAME,LAST\_NAME FROM EMPLOYEE\_20BCD7171

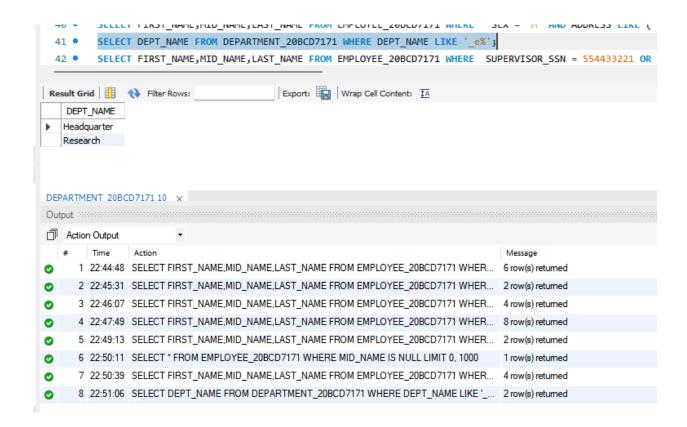
WHERE SEX = 'M' AND ADDRESS LIKE ('%HOUSTON%');



8.Display the department names that ends with 'e'.

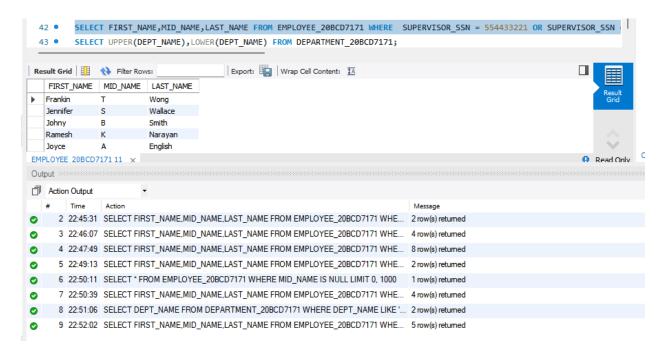
SELECT DEPT\_NAME FROM DEPARTMENT\_20BCD7171

WHERE DEPT\_NAME LIKE ' e%';



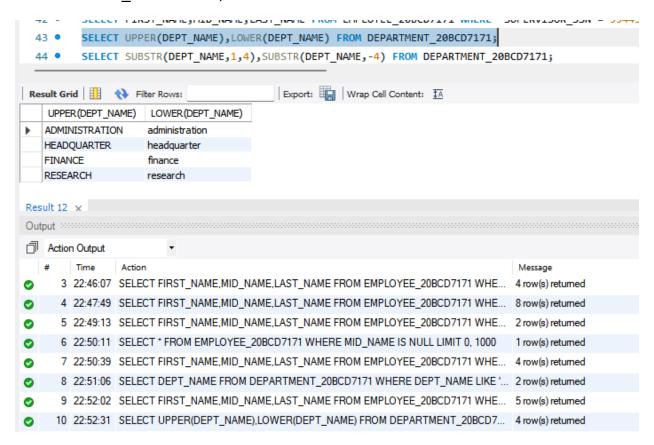
9.Display the names of all the employees having supervisor with any of the following SSN 554433221, 333445555.

SELECT FIRST\_NAME,MID\_NAME,LAST\_NAME FROM EMPLOYEE\_20BCD7171
WHERE SUPERVISOR SSN = 554433221 OR SUPERVISOR SSN = 333445555;



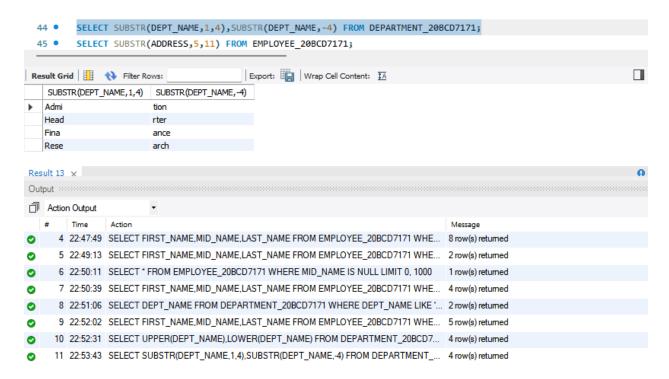
10. Display all the department names in upper case and lower case.

### SELECT UPPER(DEPT\_NAME),LOWER(DEPT\_NAME) FROM DEPARTMENT 20BCD7171;



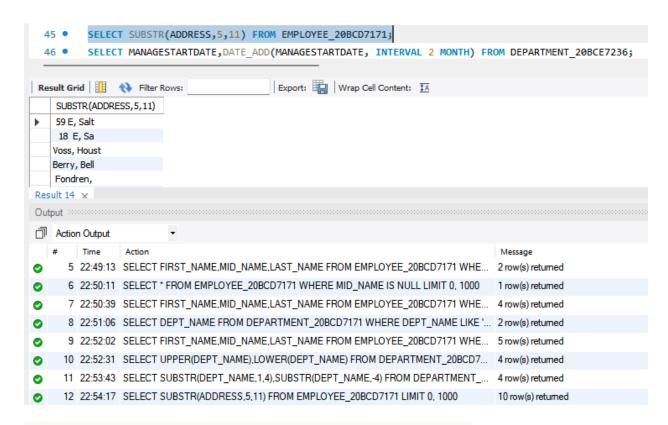
11. Display the first four characters and last four characters of the department namesusing substring function.

SELECT SUBSTR(DEPT\_NAME,1,4),SUBSTR(DEPT\_NAME,-4) FROM DEPARTMENT\_20BCD7171;



12. Display the substring of the address (starting from 5th position to 11th position) of all employees.

SELECT SUBSTR(ADDRESS,5,11) FROM EMPLOYEE\_20BCD7171;



13. Display the ManagStartDateon adding two months to it.

#### SELECT ADD MONTHS (MANAGESTARTDATE, 2) FROM DEPARTMENT 20BCD7171;

