

ASSIGNMENT -5 (Winter Sem 2021-2022)

Course Code: CSE2007 Course Title: DBMS

Faculty Name: Manomita Chakraborty (70296)

Date: 06-05-2022

Student Name: SUDULAGUNTA BRAHMANYA ASHRITH

Reg No: 20BCE7236

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	IE ∮ MID_NAME	♣ LAST_NAME	♦ SSN_NUMBER	BIRTHDAY		♦ SEX	SALARY	\$ SUPERVISOR_SSN	DEPARTMENT_NUMBER
Doug	Е	Gilbert	554433221	09-06-60	11 S 59 E, Salt Lake City, UT	M	80000	(null)	3
Joyce	(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
Joyce	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	٧	Jabbar	987987987	29-03-59	980 Dallas, Houston, TX	M	25000	987654321	4

CREATE TABLE EMPLOYEE_20BCE7236 (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_20BCE7236 (DEPT_NAME VARCHAR2(15),DEPT_NO NUMBER (5),MANAGERSSN CHAR (9),MANAGESTARTDATE DATE);

CREATE TABLE PROJECT_20BCE7236(PROJECTNAME VARCHAR(15),PROJECTNUMBER NUMERIC(5),PROJECTLOCATION VARCHAR(15),DEPT_NO NUMERIC(5));

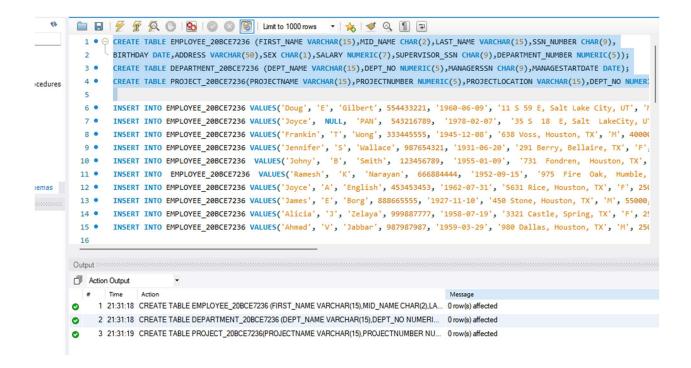


Table Name: Department

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

Department

DEPT_NAME			
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_20BCE7236 VALUES('Doug', 'E', 'Gilbert', 554433221, '1960-06-09', '11 S 59 E, Salt Lake City, UT', 'M', 80000, NULL, 3);

INSERT INTO EMPLOYEE_20BCE7236 VALUES('Joyce', NULL, 'PAN', 543216789, '1978-02-07', '35 S 18 E, Salt LakeCity, UT', 'F', 70000, NULL, 2);

INSERT INTO EMPLOYEE_20BCE7236 VALUES('Frankin', 'T', 'Wong', 333445555, '1945-12-08', '638 Voss, Houston, TX', 'M', 40000, 554433221, 5);

INSERT INTO EMPLOYEE_20BCE7236 VALUES('Jennifer', 'S', 'Wallace', 987654321, '1931-06-20', '291 Berry, Bellaire, TX', 'F', 43000, 554433221, 4);

INSERT INTO EMPLOYEE_20BCE7236 VALUES('Johny', 'B', 'Smith', 123456789, '1955-01-09', '731 Fondren, Houston, TX', 'M', 30000, 333445555, 5);

INSERT INTO EMPLOYEE_20BCE7236 VALUES('Ramesh', 'K', 'Narayan', 666884444, '1952-09-15', '975 Fire Oak, Humble, TX', 'M', 38000, 333445555, 5);

INSERT INTO EMPLOYEE_20BCE7236 VALUES('Joyce', 'A', 'English', 453453453, '1962-07-31', '5631 Rice, Houston, TX', 'F', 25000, 333445555, 5);

INSERT INTO EMPLOYEE_20BCE7236 VALUES('James', 'E', 'Borg', 888665555, '1927-11-10', '450 Stone, Houston, TX', 'M', 55000, 543216789, 1);

INSERT INTO EMPLOYEE_20BCE7236 VALUES('Alicia', 'J', 'Zelaya', 999887777, '1958-07-19', '3321 Castle, Spring, TX', 'F', 25000, 987654321, 4);

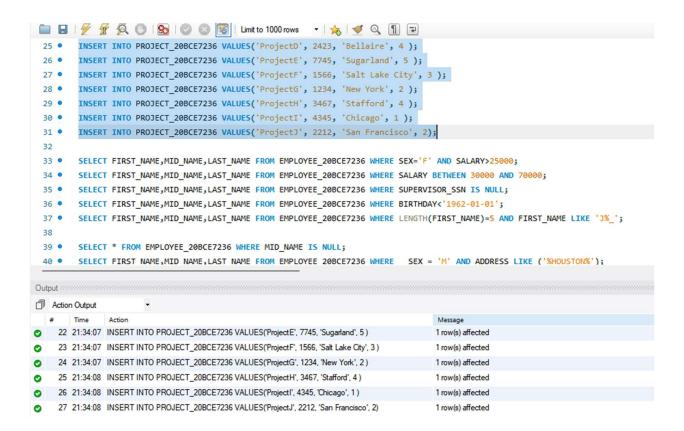
INSERT INTO EMPLOYEE_20BCE7236 VALUES('Ahmad', 'V', 'Jabbar', 987987987, '1959-03-29', '980 Dallas, Houston, TX', 'M', 25000, 987654321, 4);

INSERT INTO DEPARTMENT_20BCE7236 VALUES('Administration', 2, 543216789, '1999-01-04');

INSERT INTO DEPARTMENT_20BCE7236 VALUES('Headquarter', 3, 554433221, '1955-09-22');

INSERT INTO DEPARTMENT_20BCE7236 VALUES('Finance', 4, 987654321, '1985-01-01');

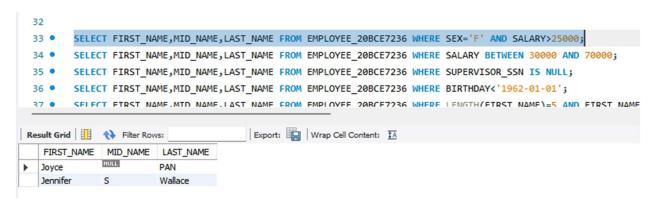
INSERT INTO DEPARTMENT 20BCE7236 VALUES('Research', 5, 333445555, '1978-05-22');



Questions

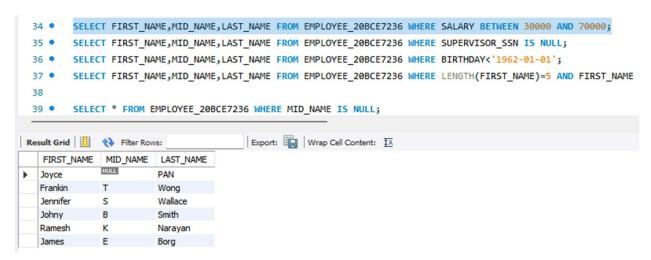
1. Find the female employee names having salary greater than Rs. 25000.

SELECT FIRST_NAME,MID_NAME,LAST_NAME FROM EMPLOYEE_20BCE7236 WHERE SEX='F' AND SALARY>25000;



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

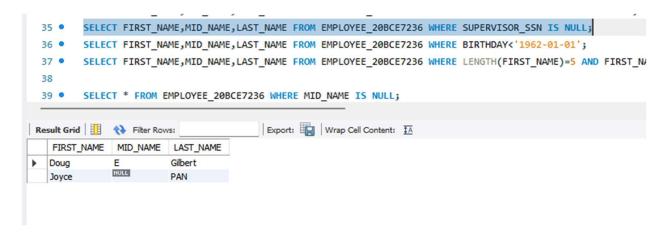
SELECT FIRST_NAME,MID_NAME,LAST_NAME FROM EMPLOYEE_20BCE7236 WHERE SALARY > 30000 AND SALARY <70000;



3. Find all the employees who have no supervisor.

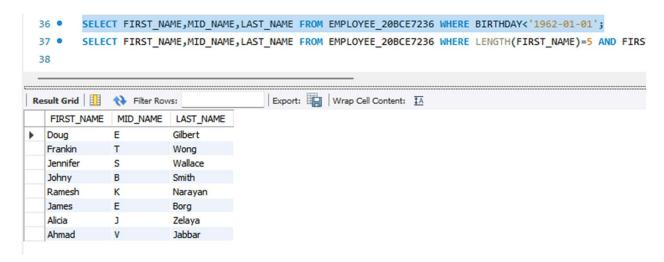
SELECT FIRST_NAME, MID_NAME, LAST_NAME FROM EMPLOYEE_20BCE7236

WHERE SUPERVISOR SSN IS NULL;



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

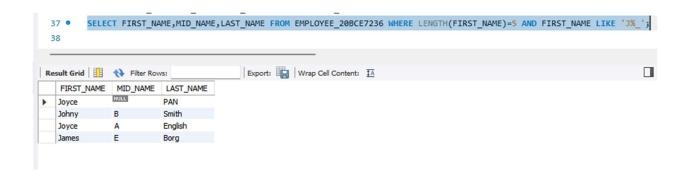
SELECT FIRST_NAME,MID_NAME,LAST_NAME FROM EMPLOYEE_20BCE7236
WHERE BIRTHDAY <'01-JAN-1962';



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_20BCE7236

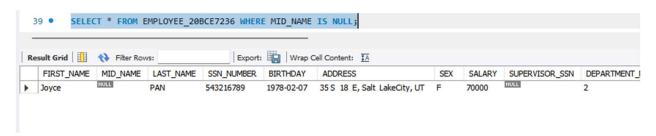
WHERE LENGTH(FIRST_NAME)=5 AND FIRST_NAME LIKE 'J%';



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

SELECT FIRST_NAME,MID_NAME,LAST_NAME FROM EMPLOYEE_20BCE7236

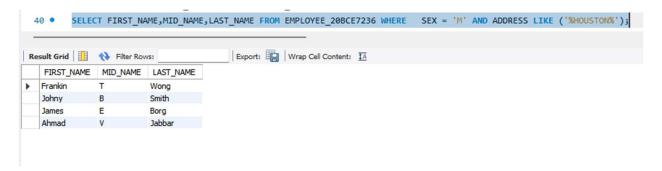
WHERE MID_NAME IS NULL;



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

SELECT FIRST_NAME,MID_NAME,LAST_NAME FROM EMPLOYEE_20BCE7236

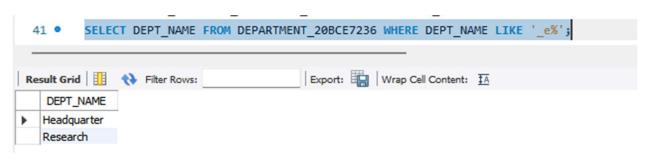
WHERE SEX = 'M' AND ADDRESS LIKE ('%HOUSTON%');



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

SELECT DEPT_NAME FROM DEPARTMENT_20BCE7236

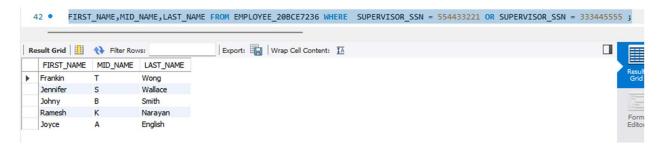
WHERE DEPT_NAME LIKE '_e%';



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

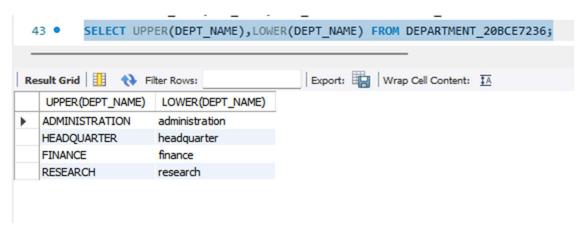
SELECT FIRST_NAME, MID_NAME, LAST_NAME FROM EMPLOYEE_20BCE7236

WHERE SUPERVISOR_SSN = 554433221 OR SUPERVISOR_SSN = 333445555;



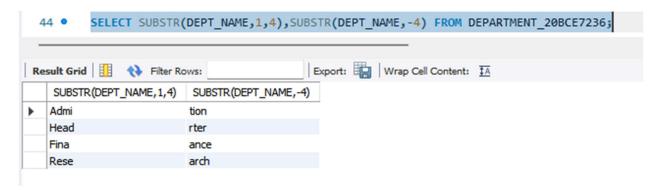
10.Display all the department names in upper case and lower case.

SELECT UPPER(DEPT_NAME),LOWER(DEPT_NAME) FROM DEPARTMENT_20BCE7236;



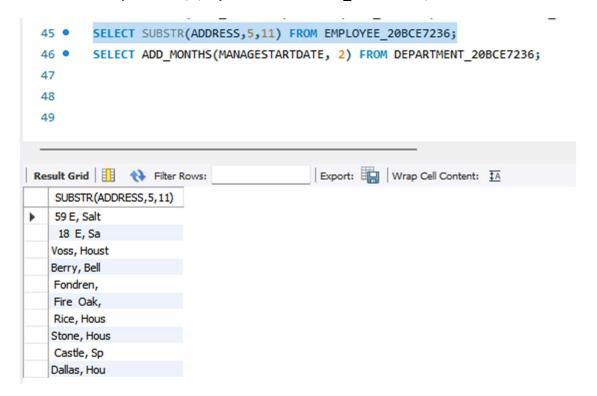
11. Display the first four characters and last four characters of the department namesusing substring function.

SELECT SUBSTR(DEPT_NAME,1,4),SUBSTR(DEPT_NAME,-4) FROM DEPARTMENT_20BCE7236;



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

SELECT SUBSTR(ADDRESS,5,11) FROM EMPLOYEE_20BCE7236;



13.Display the ManagStartDateon adding two months to it.

SELECT ADD_MONTHS(MANAGESTARTDATE, 2) FROM DEPARTMENT_20BCE7236;

