Alex Swindle Aswindle CSC 460 Homework 3

QUERY 01

--Query 1:

--All attributes of employees from dept 5

set echo on

SELECT *

FROM mccann.employee e

WHERE e.dno = 5;

FNAME	M LNAME	SSN	BDATE	ADDRESS	S	SALARY	SUPERSSN	DNO
					-			
John	B Smith	123456789	09-JAN-55	731 Fondren, Houston, TX	M	30000	333445555	5
Franklin	T Wong	333445555	08-DEC-45	638 Voss, Houston, TX	M	40000	888665555	5
Ramesh	K Narayan	666884444	15-SEP-52	975 Fire Oak, Humble, TX	M	38000	333445555	5
Joyce	A English	453453453	31-JUL-62	5631 Rice, Houston, TX	F	25000	333445555	5

QUERY 02

--SSNs of employees on proposal 10, sorted in descending order SELECT essn
FROM mccann.works_on
WHERE pno = 10
ORDER BY essn DESC;

ESSN

999887777

987987987

333445555

QUERY 03

--Cartesian product of emp first names and dependents names, distinct SELECT DISTINCT e.fname, d.dependent_name FROM mccann.employee e, mccann.dependent d;

FNAME	DEPENDENT_	James Franklin	Abner Alice
John	Michael	Alicia	Alice
		Alicia	
John	Theodore		Theodore
John	Abner	Jennifer	Abner
Alicia	Elizabeth	Ramesh	Theodore
Alicia	Abner	James	Theodore
Jennifer	Elizabeth	John	Elizabeth
Jennifer	Theodore	Franklin	Abner
Joyce	Alice	Jennifer	Alice
Ahmed	Joy	Ramesh	Joy
James	Alice	Alicia	Joy
John	Alice	Ramesh	Michael
Franklin	Elizabeth	Ramesh	Abner
Jennifer	Michael	Joyce	Theodore
Franklin	Michael	James	Michael
Ramesh	Alice	John	Joy
Joyce	Elizabeth	Franklin	Joy
Joyce	Michael	Franklin	Theodore
Ahmed	Alice	Alicia	Michael
Ahmed	Elizabeth	Jennifer	Joy
Ahmed	Theodore	Ramesh	Elizabeth
Ahmed	Abner	Joyce	Abner
Joyce	Joy	Ahmed	Michael
James	Elizabeth		
James	Joy	48 rows se	lected.
	* * 1	. =	

QUERY 04

--Locations of research
SELECT dl.dlocation
FROM mccann.dept_locations dl, mccann.department d
WHERE dl.dnumber = d.dnumber
AND d.dname = 'Research';

DLOCATION

Houston

Sugarland

Bellaire

QUERY 05

```
--Full name of employee with largest salary

SELECT fname, minit, lname

FROM mccann.employee

WHERE salary = (SELECT MAX(salary) FROM mccann.employee);
```

FNAME M LNAME
----James E Borg

```
QUERY 06
--Names of departments with employee with dependent named alice
SELECT dept.dname
FROM mccann.employee e, mccann.department dept, mccann.dependent depn
WHERE depn.dependent_name = 'Alice'
AND depn.essn = e.ssn
AND dept.dnumber = e.dno;
DNAME
_____
Research
Research
QUERY 07
--SSNs of employees in dept 5 or who supervise employee in dept 5
```

SELECT e.ssn FROM mccann.employee e WHERE e.dno = 5UNION SELECT e.superssn FROM mccann.employee e WHERE e.dno = 5;

SSN

_____ 123456789

333445555 453453453

666884444

888665555

QUERY 08

```
--Birthdates of managers of departments with projects in Stafford
SELECT e.bdate
FROM mccann.employee e, mccann.project p, mccann.department d
WHERE p.plocation = 'Stafford'
AND p.dnum = d.dnumber
AND e.ssn = d.mgrssn;
```

BDATE

20-JUN-31 20-JUN-31

QUERY 09

--Full name of each employee and full name of their supervisor SELECT el.fname, el.minit, el.lname, e2.fname, e2.minit, e2.lname FROM mccann.employee e1, mccann.employee e2 WHERE el.superssn = e2.ssn;

FNAME	М	LNAME	FNAME	М	LNAME
	-			_	
Ramesh	K	Narayan	Franklin	Τ	Wong
John	В	Smith	Franklin	Т	Wong
Joyce	Α	English	Franklin	Т	Wong
Franklin	Τ	Wong	James	Ε	Borg
Jennifer	S	Wallace	James	Ε	Borg
Alicia	J	Zelaya	Jennifer	S	Wallace
Ahmed	V	Jabbar	Jennifer	S	Wallace

QUERY 10

--Names of male dependents of male employees SELECT d.dependent name FROM mccann.dependent d, mccann.employee e WHERE d.sex = 'M' AND d.essn = e.ssnAND e.sex = 'M';

DEPENDENT_

Michael

Theodore

QUERY 11

```
--Salaries of employees in dept 5 not on ProductY
SELECT e.salary
FROM mccann.employee e, mccann.works on wo, mccann.project p
WHERE e.dno = 5
AND e.ssn = wo.essn
AND wo.pno = p.pnumber
AND p.pname != 'ProductY';
```

SALARY

-----25000

30000

38000 40000

40000

40000

QUERY 12

Administration

--For projects with more than 2 employees:

```
-- Retrieve project number, project name, number of employees on that project
SELECT p.pname, t1.*
FROM mccann.project p, (SELECT wo.pno, COUNT(wo.essn)
                                FROM mccann.works on wo
                                GROUP BY wo.pno
                                HAVING COUNT(wo.essn) >= 2) t1
WHERE p.pnumber = t1.pno;
                       PNO COUNT (WO.ESSN)
-----
                          1
ProductX
Newbenefits
                         30
                          2
                                        3
ProductY
Reorganization
                         20
                         3
ProductZ
Computerization
                 10
6 rows selected.
QUERY 13
--Names of departments that employ all sex
--Want: d.dname
--alpha: e.dno, e.sex from employee
--beta: sex
SELECT d.dname
FROM mccann.department d, (
SELECT DISTINCT dno
FROM mccann.employee e
GROUP BY dno
HAVING COUNT(DISTINCT e.sex) =
          (SELECT COUNT(DISTINCT sex)
          FROM mccann.employee
          )) t1
WHERE d.dnumber = t1.dno;
DNAME
-----
Research
```