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

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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

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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\_

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John Michael

John Theodore

John Abner

Alicia Elizabeth

Alicia Abner

Jennifer Elizabeth

Jennifer Theodore

Joyce Alice

Ahmed Joy

James Alice

John Alice

Franklin Elizabeth

Jennifer Michael

Franklin Michael

Ramesh Alice

Joyce Elizabeth

Joyce Michael

Ahmed Alice

Ahmed Elizabeth

Ahmed Theodore

Ahmed Abner

Joyce Joy

James Elizabeth

James Joy

James Abner

Franklin Alice

Alicia Alice

Alicia Theodore

Jennifer Abner

Ramesh Theodore

James Theodore

John Elizabeth

Franklin Abner

Jennifer Alice

Ramesh Joy

Alicia Joy

Ramesh Michael

Ramesh Abner

Joyce Theodore

James Michael

John Joy

Franklin Joy

Franklin Theodore

Alicia Michael

Jennifer Joy

Ramesh Elizabeth

Joyce Abner

Ahmed Michael

48 rows selected.

**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

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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

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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

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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 = 5

UNION

SELECT e.superssn

FROM mccann.employee e

WHERE e.dno = 5;

SSN

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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

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20-JUN-31

20-JUN-31

**QUERY 09**

--Full name of each employee and full name of their supervisor

SELECT e1.fname, e1.minit, e1.lname, e2.fname, e2.minit, e2.lname

FROM mccann.employee e1, mccann.employee e2

WHERE e1.superssn = e2.ssn;

FNAME M LNAME FNAME M LNAME

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Ramesh K Narayan Franklin T Wong

John B Smith Franklin T Wong

Joyce A English Franklin T Wong

Franklin T Wong James E Borg

Jennifer S Wallace James E 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.ssn

AND e.sex = 'M';

DEPENDENT\_

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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

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25000

30000

38000

40000

40000

40000

**QUERY 12**

--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;

PNAME PNO COUNT(WO.ESSN)

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ProductX 1 2

Newbenefits 30 3

ProductY 2 3

Reorganization 20 3

ProductZ 3 2

Computerization 10 3

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

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Research

Administration