Shivam Patel

Final Project

Database

**1.)List all the doctors RICHARD MILLER is consulting.**

1. SELECT \* FROM DOCTORS WHERE D\_NAME = 'RICHARD MILLER';

6,"PATRICIA JOHNSON",f,31,"Obstetrics and gynaecology",5,978-930-9517,"Whitney Avenue",Lowell

4,"WILLIAM BROWN",m,44,"Physical medicine and rehabilitation",18,781-045-4121,"Newel Street",Burlington

**2.)Find all the test results of cancer patients. (Note: There may be different type of cancer)**

1. SELECT \* FROM TESTS
2. JOIN PATIENTS ON TESTS.P\_ID = PATIENTS.P\_ID
3. WHERE PATIENTS.P\_DISEASE LIKE '%cancer%';

4,Test4,1030,4,6,6/17/2010,Positive,1030,"SANDRA MARTIN",f,16,"Bladder Cancer",617-936-1460,"Massachusetts Avenue",Boston

29,Test29,1008,3,0,11/17/1991,Negative,1008,"MARK WHITE",m,53,"Prostate Cancer",617-936-0112,"Daisy Avenue",Boston

48,Test48,1029,4,0,5/8/2007,Positive,1029,"HELEN HARRIS",f,72,Cancer,617-936-0880,"First Street",Boston

**3.)List all the instruments produced by a manufacturer whose name starts with "S".**

1. SELECT \* FROM INSTRUMENTS WHERE I\_MANUFACTURER LIKE 'S%';

"Stryker Corporation"

**4.)Find the most experienced doctor in the hospital.**

1. SELECT \* FROM DOCTORS ORDER BY D\_YEARS\_OF\_EXPERIENCE DESC LIMIT 1;

9,"ELIZABETH BROWN",f,57,Pediatrics,31,617-314-8264,"Lee Avenue",Woburn

**5.)List all the patients of doctor JAMES SMITH who live in the same street and same city as him.**

1. SELECT \* FROM PATIENTS
2. JOIN P\_ASSIGNMENT ON PATIENTS.P\_ID = P\_ASSIGNMENT.P\_ID
3. JOIN DOCTORS ON P\_ASSIGNMENT.D\_ID = DOCTORS.D\_ID
4. WHERE DOCTORS.D\_NAME = 'JAMES SMITH' AND PATIENTS.P\_STREET = DOCTORS.D\_STREET AND PATIENTS.P\_CITY = DOCTORS.D\_CITY;

1028,"BETTY WHITE",f,32,"Chronic Obstructive Pulmonary Disease (COPD)",781-370-4509,"Sterling Place",Reading,1028,0,0,"JAMES SMITH",m,36,"General surgery",10,781-370-0443,"Sterling Place",Readin

**6.)Find the nurses who assist at least two doctors. Display nurse name and the number of doctors he/she is assisting**

1. SELECT NURSES.N\_ID, NURSES.N\_NAME, COUNT(DISTINCT N\_ASSISTS.D\_ID) AS NUM\_DOCTORS\_ASSISTED
2. FROM N\_ASSISTS
3. JOIN NURSES ON N\_ASSISTS.N\_ID = NURSES.N\_ID
4. GROUP BY NURSES.N\_ID
5. HAVING NUM\_DOCTORS\_ASSISTED >= 2;

2502,"SOLINDA WILLIAMS",3

2505,"JENNIFER DAVIS",3

2506,"MARIA MILLER",2

2508,"MARGARET MOORE",2

2515,"SANDRA MARTIN",2

2517,"CAROL GARCIA",2

2518,"SHARON ROBINSON",2

2519,"MICHELLE CLARK",3

7.)List the doctors and the number of nurses they have in the descending order of their number.

1. SELECT D\_ID, COUNT(DISTINCT N\_ID) AS NUM\_NURSES
2. FROM N\_ASSISTS
3. GROUP BY D\_ID
4. ORDER BY NUM\_NURSES DESC;

6,"PATRICIA JOHNSON",5

9,"ELIZABETH BROWN",4

0,"JAMES SMITH",3

1,"JOHN JOHNSON",3

2,"ROBERT WILLIAMS",3

3,"MICHAEL JONES",3

4,"WILLIAM BROWN",3

5,"MARY SMITH",2

7,"LINDA WILLIAMS",2

8,"BARBARA JONES",2

**8.)Find all the nurses who are not assigned to any doctors.**

SELECT \* FROM NURSES

WHERE N\_ID NOT IN (SELECT N\_ID FROM N\_ASSISTS);

2500|MARY SMITH|Oncology nursing|2|Sterling Place|Reading

**9.)Increment years of experience of all the female doctors by 5.**

UPDATE DOCTORS SET D\_YEARS\_OF\_EXPERIENCE = D\_YEARS\_OF\_EXPERIENCE + 5 WHERE D\_GENDER = 'Female';

**10.)Delete all the tests whose result is negative.**

DELETE FROM TESTS WHERE T\_RESULT = 'negative';