DBMS Assignment 1

A. Consider the following relations:

EMPLOYEE (EMPLOYEE_NAME, STREET, CITY)

WORKS (EMPLOYEE NAME, COMPANYNAME, SALARY)

COMPANY (COMPANY NAME, CITY)

Write the Relational Algebra

- -i)Find the names of all employees who work for first Bank Corporation.
- ii) Find the names and company names of all employees having salary more than 20,000
- iii) Print the details of companies located in "Lucknow"
- iv) Print the name of all employees residing in "Lucknow" but not in "Kanpur"
- v) Print the name and salary of all employees who are not working for the company "TCS"
- vi) Print the name of all employees who are getting more than 50000 salary in the "Wipro" company
- B. Consider the following database tables and answer queries using Relational Algebra.

Student (snum, sname, major, age)

Faculty (fid, fname, deptname)

Course (cname, meets at, room, fid)

Enrolled (snum, cname)

- i) Find the student number of the students who have enrolled in course Database Systems.
- ii) Find all the courses which are NOT using room R128. \
- iii) Find all the department name of the professor "Ajay Kumar" teaches.
- iv) Find out the all the course name taught by the facuty having ID 2345