EASTERN UNIVERSITY, SRILANKA
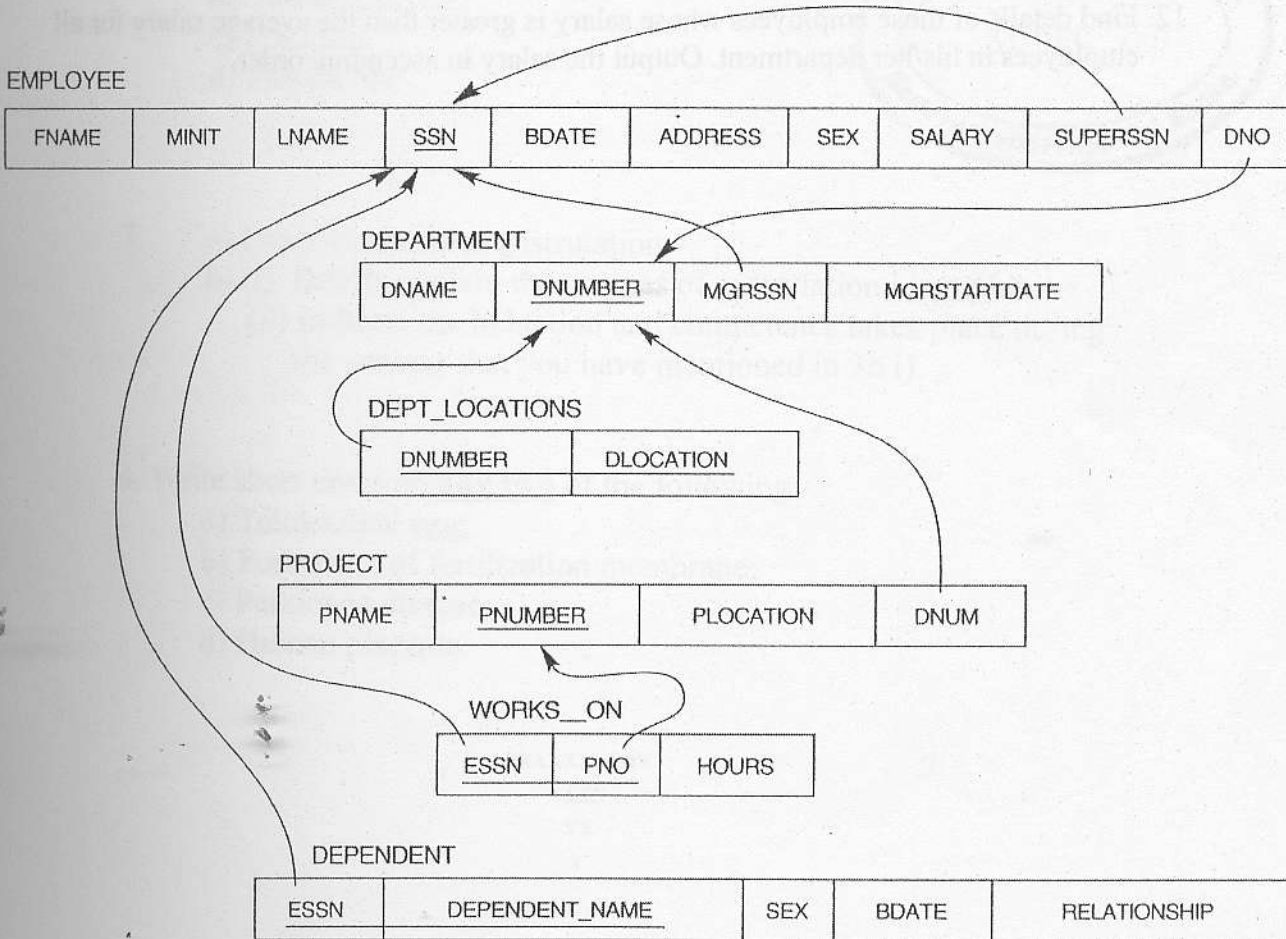# DEPARTMENT OF MATHEMATICS

EXTERNAL DEGREE EXAMINATION IN SCIENCE – 2008/2009
SECOND YEAR, SECOND SEMESTER (Jan. /Feb., 2011)

EXTCS253 – Practical Work on EXTCS203

Answer all questions   **Time: 2 Hours**

A database schema of a company is given bellow:

EMPLOYEE

FNAME	MINIT	LNAME	SSN	BDATE	ADDRESS	SEX	SALARY	SUPERSSN	DNO

DEPARTMENT

DNAME	DNUMBER	MGRSSN	MGRSTARTDATE

DEPT_LOCATIONS

DNUMBER	DLOCATION

PROJECT

PNAME	PNUMBER	PLOCATION	DNUM

WORKS__ON

ESSN	PNO	HOURS

DEPENDENT

ESSN	DEPENDENT_NAME	SEX	BDATE	RELATIONSHIP

1. Create tables corresponding to the **Relational Model** in the company database

2. Insert the suitable five data to each table by using the INSERT statement.

3. Retrieve the names of employees where salary is less than Rs. 10,000.00
4. Find the names of all Dependent of Johnson.
5. Retrieve the names of employees in department 5 who work more than 10 hours per week on the 'ProductX' project.
6. For each project, list the project name and the total hours per week (by all employees) spent on that project.
7. Retrieve the names of employees who work on every project.
8. Retrieve the names of employees who do not work on any project.
9. Find the names and addresses of employees who work on at least one project located in Houston but whose department has no location in Houston.
10. List the last names of department managers who have no dependents.
11. Find details of those employees whose salary is greater than the average salary for all employees. Output the salary in descending order.
12. Find details of those employees whose salary is greater than the average salary for all employees in his/her department. Output the salary in ascending order.