**Assignment and practice II:**

**Submission date: (8days)next Friday from today July3rd.**

**Question1:**  
Create a table using the below details and set id as primary key for employee table.  
employee(id, name, address,salary,company\_name,job\_title)  
Insert 5 rows on it.  
1. Display all employee names and salary whose salary is greater than minimum salary of  
the company and job title starts with 'M‘.  
2. Write a query to find all the employees who work in the same job\_title as Ram.  
  
**Question2:**  
Create a table using the below details and set id as primary key for student table.  
student(id, name, course, subject\_id, mark)  
subject(subject\_id, subject)  
Insert 5 rows on both tables.  
1. Select the student details along with subject and mark.  
2. Group the students based on the course.  
  
**Question3:**  
Create a table using the below details and set id as primary key for faculty table.  
faculty(id, name address, subject, salary)  
Insert 5 rows on it.  
1. Find total rows, sum, average, maximum, minimum salary of faculty.  
2. Write a query to display all the faculty and salary whose salary is greater than average salary of all faculty.  
  
  
**Question4:**  
Create a table using the below details set id as primary key for teacher table.  
teacher(id, name, address,salary)  
subject(subject\_id, subject\_name)  
Insert 5 rows on it.  
1. Add a new column subject\_id on the teacher table.  
2. Create a view from the teacher using the name and subject\_name column.

**Question5:**

What is tuple realtion calculus ?  Given the following schema, write tuple relational calculus for selecting name and address of employee who are working in a company having Cid=E01 ,  
Employee(Eid, Ename, Address, Cid)   
Company(Cid, CName)

**Question6:**

What is relational database? Explain different characteristic of a relation. Defain domain constraint.

**Question7:**

What are the characteristics of DBMS? Explain.

**Question8:**

What is difference between Entities and Entity sets? Explain with example.

**Question9:**

What is data abstraction? What are different levels of data abstraction? Brief it.

**Question 10:**

Explain constraints and characteristics of specialization and generalization of data model.

**Question 11:**

Explain the difference between “Join” and “Natural Join”, of algebriac operations with example.

**Question 12:**

Explain the difference between 3 different Outer joins of algebriac operations with example.