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.