FAST

Paper A

Course Code: CL2001	Course Name: Database Lab
Instructors: Mr. Shaheer Ahmad Khan	
Student Roll No:	Section: BSCS-5J

Instructions:

READ carefully the following instructions before attempting the paper.

- Except your Roll No and Section, **DO NOT WRITE** anything on this paper.
- The Exam consists of **2 questions on 2 pages.**
- In case of any ambiguity, you may make assumptions but your assumption must not contradict any statement in the question paper.
- Create a folder named according to Roll_No. Files should be named according to Roll_No e.g. k221234_Q1. SQL, k221234_Q2.SQL etc. Then ZIP/RAR the folder which includes all your .SQL files
- Submission on IP (Win + R): \\172.16.5.43\Exam Submission\Shaheer Ahmad\DB_lab\Section

Time: 90 Minutes

Max Marks: 25 Marks

Question No.1   [LLO:4]   [Estimated Time: 35 Minutes]   [15 Marks]
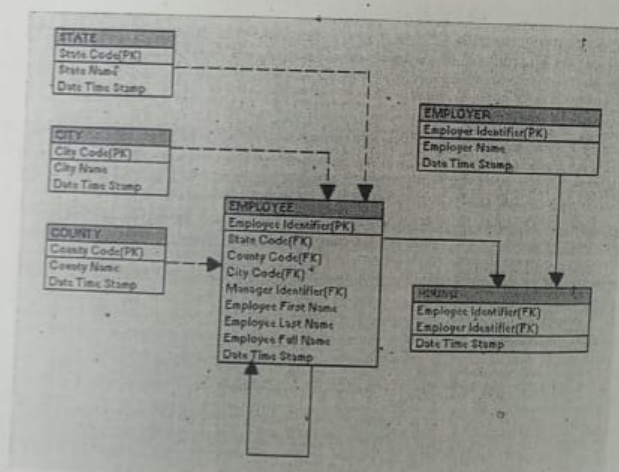

Fig:1

Using the above figure 1 of relational model do perform the following task:

1. Create DDL script.
2. Add all the necessary keys and other constraints in the script.
3. Delete the table "HIRING" and create new table "SALARY" representing the salary offered by an employer to an employee & the contract period(days).
4. delete the table "Employer".

Question No.2 (SQL Queries) [LLO:5,6]   [Estimated Time: 45 Minutes]   [10 Marks]

1. Write a query to retrieve employees who have been employed in multiple departments, including their start and end dates in each department.

2. Write a query to update department_id of all employees to be equal to the one with state province Texas, given that its initial value is NULL.

3. Write a query to find the departments with the highest and lowest salary payouts, along with the total number of employees in each department.

4. Write a query to identify the ten most senior employees and display their tenure periods.

5. List employees whose salaries, after a 20% increment, are still below 3000.

6. Write a query to display Department ID, Department Name, Manager Name, Manager Salary, and Department City.

7. Write a query to display all employee information for those whose salary falls within the range of the lowest salary and 2500.

8. Write a query to retrieve the names of employees whose salary exceeds 50% of their department's total salary expenditure.

9. SQL query to retrieve the full name, job title, start date, and end date of the most recent job held by employees who did not receive any commission.

10. Query to calculate the total salary for each state where the second letter of the state name is 'a'.

GOOD LUCK...