LAB MANUAL

DISTRIBUTED DATABASE SYSTEM

Attempt all questions of the lab manual. The lab Manual is submitted in printed form. Lab manual must be submitted in tape binding & ring binding. Lab manual contains 08 marks.

Typing Directions

- Good quality white bond paper of the size A4 size must be used.
- One inch broad margin must be on each side except the left side margin which should be **1.25 inch**.
- No header footer used while typing no extra margin should be left within the marked margin.
- "Times New Roman" writing font style is the recommended throughout the Lab Manual assignment.
- The main headings font size should be 16 and capital while for the sub heading and general text should be 14 and 12 respectively.

QUESTION # 1:

What is JOIN in SQL? What is JOIN Query syntax? Explain different types of JOIN Quires and its syntax with the help of examples. Also differentiate between SQL UNION and SQL JOIN and Cross JOIN.

QUESTION #2:

Create a report titled Customer History Report. This report contains each customer's history of renting videos. Be sure to include the customer name, movie rented, dates of the rental, and duration of rentals. Total the number of rentals for all customers for the reporting period.

Note: Your results may be different.

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Customer History Report

page 1

MEMBER	TITLE	BOOK_DATE	DURATION
Carmen Velasquez	Willie and Christmas Too	24-SEP-01	1
	Alien Again	26-SEP-01	
	Interstellar Wars	27-SEP-01	
LaDoris Ngao	My Day Off	25-SEP-01	
Molly Urguhart	Soda Gang	23-SEP-01	2

QUESTION #3:

Explain Multi-database Query Processing Architecture with the help of diagram. Also explain Distributed DBMS Reliability and Failure in Distributed DBMS.

What are the Reliability Concepts and Measures?

- System, State, and Failure
- Reliability and Availability
- Mean Time between Failures/Mean Time to Repair

What is the Failure in Distributed DBMS?

- Transaction Failures
- Site (System) Failures
- Media Failures
- Communication Failures

Explain Reliability Concepts and Measures and Failure in Distributed DBMS.

QUESTION # 4:

Create table like table 1 and table 2. Create your own table names and attribute names. Must enter 30 plus proper entries.

- (a) Then write a SQL query to find sales people who received commissions of more than 12 percent from the company. Return the name of Customer and city of customer where he belongs and Salesman how sells the product and his commission.
- (b) Then also write a SQL query to find distinct sales people and their cities. Return sales person ID and city. Also draw relational algebra tree for union all the entities.

Sample table: customer

customer_id	cust_name	city	grade	salesman_id
3002	Nick Rimando	New York	100	5001
3007	Brad Davis	New York	200	5001
3005	Graham Zusi	California	200	5002
3008	Julian Green	London	300	5002
3004	Fabian Johnson	Paris	300	5006
3009	Geoff Cameron	Berlin	l 100 i	5003
	T	able # 1		

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Sample table: salesman

_	name		•
5001 5002 5005 5006 5007	James Hoog Nail Knite Pit Alex Mc Lyon Paul Adam Lauson Hen	New York Paris London Paris Rome	0.15 0.13 0.11 0.14 0.13

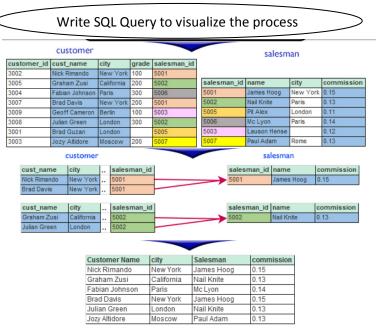
Table # 2

Then output of the query must be like that. For example,

Output of the Query:

Customer Name	city	Salesman	commission
Nick Rimando	New York	James Hoog	0.15
Brad Davis	New York	James Hoog	0.15
Graham Zusi	California	Nail Knite	0.13

Show the name of seven plus persons in a table that got the commission 12 percent and more than 12 percent from the company. Explain all the working in detail also visualize the explanations in form of figure.



Visualization and output table

NOTE:

- Submission Date of Lab Manual Assignment is 14-07-2023 (FRIDAY).
- Class CR GR collects the data and submits to me.
- No one allow submitting after due date and time.
- Log/code file submit in soft form. No need to take print the log/code file.
- All files submit in both formats **HARD COPY AND SOFT COPY**.

GOOD LUCK