DBS Lab record

Lab 1 : Describe the syntax of CRUD operations with syntax and examples.

Lab 2: Answer MongoDB Questions based on 3 databases namely restaurant, movie and tourist. Insert 10 documents into each database and then answer the queries for the 10 questions

Lab 3: Create and Insert statements of SQL for company database

Lab 4: Queries for company database (any 10)

Lab 5:

For the relation schema given below, answer the following queries using SQL.

EMPLOYEE (employee-name, street, city)

WORKS (employee-name, company-name, salary)

COMPANY (company-name, city)

MANAGES (employee-name, manager-name)

1. Find the names, street address, and cities of residence for all employees who work for 'First Bank Corporation' and earn more than $10,000.

2. Find the names of all employees in the database who live in the same cities as the companies for which they work.

3. Find the names of all employees in the database who live in the same cities and on the same streets as do their managers.

4. Find the names of all employees in the database who do not work for 'First Bank Corporation‘

5. Find the names of all employees in the database who earn more than every employee of 'Small Bank Corporation'. Assume that all people work for at most one company.

Lab 6:

For the relation schema given below, answer the following queries using SQL.

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CUSTOMER (cust-no, cname, city)

ORDER (order-no, order-date, cust-no, order-amount)

ORDER – ITEM (order-no, Item-no, quantity)

ITEM (item-no, unit-price)

SHIPMENT (order-no, warehouse-no, ship-date)

WAREHOUSE (warehouse-no, city)

1. List the no. of order placed by customer no. 5

2. List item nos and and its quantity of order no. 5

3. List the average order amount where "for the current year“

4. List the no. of orders placed by each customer

5. List the customer names who have not ordered for item no. 10.

6. List customer details who has the largest order amount

7. List the names of customers who have ordered at least 10 items

Lab 7:

For the relation schema given below, answer the following queries using SQL.

BRANCH (branch-name,branch-city,assets)

CUSTOMER (customer-name,customer-street,customer-city)

ACCOUNT (account-number,branch-name,balance)

LOAN (loan-number,branch-name,amount)

DEPOSITOR (customer-name,account-number)

BORROWER (customer-name,loan-number)

EMPLOYEE (employee-name,branch-name,salary)

1. Find all account whose balance is smaller than 500.

2. Find all name of customers whose city is in Brooklyn

3. Find all employees whose salary is greater than 1400 and working branch is not ‘Downtown’

4. Calculate the average salary of all employees and show the average salary as “avg\_salary”

5. Calculate the number of customer for each account

6. Show all account\_number, branch\_name and corresponding branch\_city