Sailors Database

- 1. Find the colours of boats reserved by Albert
- 2. Find all sailor id's of sailors who have a rating of at least 8 or reserved boat 103
- 3. Find the names of sailors who have not reserved a boat whose name contains the string "storm". Order the names in ascending order.
- 4.) Find the names of sailors who have reserved all boats.
 - 5. Find the name and age of the oldest sailor.
- 6. For each boat which was reserved by at least 5 sailors with age >= 40, find the boat id and the average age of such sailors.
- 7. A view that shows names and ratings of all sailors sorted by rating in descending order.
- 8. A trigger that prevents boats from being deleted If they have active reservations.

Insurance Database

- 1. Find the total number of people who owned cars that were involved in accidents in 2021.
- 2. Find the number of accidents in which the cars belonging to "Smith" were involved.
- 3. Add a new accident to the database; assume any values for required attributes.
- 4. Delete the Mazda belonging to "Smith".
- 5. Update the damage amount for the car with license number "KA09MA1234" in the accident with report.
- 6. A view that shows models and year of cars that are involved in accident.
- 7. A trigger that prevents driver with total damage amount >rs.50,000 from owning a car.

Order Processing Database

- 1. List the Order# and Ship_date for all orders shipped from Warehouse# "W2".
- 2. List the Warehouse information from which the Customer named "Kumar" was supplied his orders. Produce a listing of Order#, Warehouse#.
- Produce a listing: Cname, #ofOrders, Avg_Order_Amt, where the middle column is the total number of orders by the customer and the last column is the average order amount for that customer. (Use aggregate functions)
- 4. Delete all orders for customer named "Kumar".
- 5. Find the item with the maximum unit price.
- 6. A trigger that prevents a project from being deleted if it is currently being worked by any employee.
- 7. Create a view to display orderID and shipment date of all orders shipped from a warehouse 2.

Student Database

- 1. Demonstrate how you add a new text book to the database and make this book be adopted by some department.
- 2. Produce a list of text books (include Course #, Book-ISBN, Book-title) in the alphabetical order for courses offered by the 'CS' department that use more than two books.
- 3. List any department that has all its adopted books published by a specific publisher.
- $\overline{4.}$ List the students who have scored maximum marks in 'DBMS' course.
- Create a view to display all the courses opted by a student along with marks obtained.
 - 6. Create a trigger such that it Deletes all records from enroll table when course is deleted .

Company Database

- 1. Make a list of all project numbers for projects that involve an employee whose last name is 'Scott', either as a worker or as a manager of the department that controls the project.
- 2. Show the resulting salaries if every employee working on the 'IoT' project is given a 10 percent raise.
- 3. Find the sum of the salaries of all employees of the 'Accounts' department, as well as the maximum salary, the minimum salary, and the average salary in this department
- 4. Retrieve the name of each employee who works on all the projects controlled by department number 5 (use NOT EXISTS operator).
- 5. For each department that has more than five employees, retrieve the department number and the number of its employees who are making more than Rs. 6,00,000.
- 6. Create a view that shows name, dept name and location of all employees.
- 7. A trigger that automatically updates manager's start date when he is assigned .