School of Computer Science and Artificial Intelligence

Course - B. Tech Type - Core

Course Code- 22CS104 Course Name – Database Management Systems (DBMS)

Year-2023-2024 Semester - Even

Date – 13th Feb 2024 Batch - 1

**Question-1:**

Create following tables with appropriate primary, foreign key and domain constraints and enter at least 10 tuples for each relation.

1. Sailors (SID, SName, Rating, Age)

Constraints: Rating should take values from 1 to 10.

2. Boats (BID, BName, Colour)

3. Reserves (SID, BID, Day)

Mr. Sandeep is the supervisor of an online Ferry Ticket Management system and is willing to know the following details of his enterprise:

1. List (IDs) of black color boats that were reserved by people whose name starts with ‘S’
2. The youngest sailor whose rating is ‘10’ has to be felicitated by the enterprise, Is there such an eligible person for felicitation, if yes, identify the sailor
3. The average age of all the sailors who have reserved a red boat
4. A boat 501 has been cancelled on a particular date and hence the enterprise has decided to cancel all the reservations for that particular boat on that day. Help Sandeep find out if there are sailors who have reserved that boat on ’24-FEB-2024’,
5. Mr. Sandeep wants to know how many sailors have reserved the boats in the last week on each day from 06th Feb to 12th Feb 2024

Use Oracle SQL to construct the above database and help Mr. Sandeep to solve the above