

**G.V.P College of Engineering (Autonomous)**  
**(Approved by AICTE, Affiliated to JNTU-Kakinada)**  
**Madhurawada, Visakhapatnam-530 048**  
**Department of Computer Science and Engineering**

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**DATABASE MANAGEMENT SYSTEMS LAB**

**Course Code : 15CT1112**

**Date: \_\_\_\_\_**

**Instructions:**

- 1. Attempt any two Questions from section-II**

**B.Tech Semester:IV**

**Lab Exam (External)**

**Set A**

**Section –I**

Q.1 Create following database schemas:

Sailors (sid: num, sname: varchar, rating: num, age: num);

Boats (bid: num, bname: varchar, color: varchar);

Reserves (sid: num, bid: num, day: date).

Q.2 create the following database instances for above database instance

**Sailors**

Sid	Sname	Rating	Age
22	Dustin	7	45
29	Brutus	1	33
31	Lubber	8	55.5
32	Andy	8	25.5
58	Rusty	10	35
64	Horatio	7	35
71	Zorba	10	16
74	Horatio	9	40
85	Art	3	25.5
95	Bob	3	63.5

**Boats**

bid	bname	color
101	Interlake	blue
102	Interlake	red
103	Clipper	green
104	Marine	red

**Reserves**

sid	bid	day
22	101	1998-10-10
22	102	1998-10-10
22	103	1998-10-8
22	104	1998-10-7
31	102	1998-11-10
31	103	1998-11-6
31	104	1998-11-12
64	101	1998-9-5
64	102	1998-9-8
74	103	1998-9-8

Figure 1: Instances of Sailors, Boats and Reserves

**Section-II**

Q.3 Find all information of sailors who have reserved boat number 101.

Q.4 Calculate the average age of all sailors.

Q.5 Write a PL/SQL code to check the given number is even or odd.

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29	Brutus	1	33	102	Interlake	red	22	102	1998-10-10
31	Lubber	8	55.5	103	Clipper	green	22	103	1998-10-8
32	Andy	8	25.5	104	Marine	red	22	104	1998-10-7
58	Rusty	10	35				31	102	1998-11-10
64	Horatio	7	35				31	103	1998-11-6
71	Zorba	10	16				31	104	1998-11-12
74	Horatio	9	40				64	101	1998-9-5
85	Art	3	25.5				64	102	1998-9-8
95	Bob	3	63.5				74	103	1998-9-8

Figure 1: Instances of Sailors, Boats and Reserves

**Section –II**

Q.3 Find the names of sailors who have reserved at least one boat.

Q.4 Find the sailors who contains 'or' substring in their name.

Q.5 Write a PL/SQL code for adding two numbers.

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31	Lubber	8	55.5	103	Clipper	green	22	103	1998-10-8
32	Andy	8	25.5	104	Marine	red	22	104	1998-10-7
58	Rusty	10	35				31	102	1998-11-10
64	Horatio	7	35				31	103	1998-11-6
71	Zorba	10	16				31	104	1998-11-12
74	Horatio	9	40				64	101	1998-9-5
85	Art	3	25.5				64	102	1998-9-8
95	Bob	3	63.5				74	103	1998-9-8

Figure 1: Instances of Sailors, Boats and Reserves

**Section –II**

Q.3 Find the names of sailors who have reserved a red boat

Q.4 Find all the boats reserved by sailor who have SID less than 35 and rating greater than 7.

Q.5 Create an anonymous block which catches ZERO\_DIVIDE exception raised in the executable section and displays an error message.