

## Assignment I

# Malla Reddy Engineering College (Autonomous)

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## Department of Computer Science and Engineering

II B.TECH –II Semester (MR18)

Course: Database Management Systems

Branch: CSE

Course code: 80512

### Assignment Questions

S.No	Assignment Question	Blooms Taxonomy Level	CO
1	Construct a relational model with suitable example and specify various key constraints that are defined for maintaining data integrity.	Applying	1
2	Design the Banking database ER diagram. Identify and Illustrate SQL statements to create the corresponding relations and capture as many of the constraints as possible.	Applying	1
3	Consider the following schema and write the following queries in SQL. <i>Sailors</i> ( <u>sid</u> , sname, rating, age) <i>Boats</i> ( <u>bid</u> , bname, color) <i>Reserves</i> ( <u>sid</u> , <u>bid</u> , day) a. Find the names of sailors who have reserved a red or a green boat. b. Find the sids of sailors with age over 20 who have not reserved a red boat. c. Find the names of sailors who have reserved boat 103. d. Find the names of sailors who have reserved a red boat. Find the colours of boats reserved by lubber.	Analyzing	2
4	Consider the following schema and write the following queries in relational algebra. <i>Sailors</i> ( <u>sid</u> , sname, rating, age) <i>Boats</i> ( <u>bid</u> , bname, color) <i>Reserves</i> ( <u>sid</u> , <u>bid</u> , day) a. Find the names of sailors who have reserved a 'red' and a 'green' boat. b. Find the sids of sailors with age over 50 who have not reserved a 'green' boat. c. Find the names of sailors who have reserved at least one boat. d. Find all sailors with a rating above 7. Find the names and ages of sailors with a rating above 7	Analyzing	2
5	Solve problems caused by redundancy and Explain with example?	Analyzing	3