

MODULE-2

1. Apply the concepts of Entity integrity and Referential integrity constraints in DBMS and illustrate the results of their violations. OR
Identify the possible constraints in Relational DBMS along with the effects of their violations.
2. Outline the procedure involved in converting the database specification in ER notation into relational schema with an appropriate example.
3. Illustrate the working of the following relational operations in detail with syntax and example.
a. Select b. Project c. Set Difference d. Union e. Intersection f. Rename g. Division h. Cross Product
4. Simple Queries on Relational Algebra using the above operators.

Ex: Build the relational algebra expression for the following queries using given schema:

SAILORS (Sid, Sname, rating, age)

BOATS (bid, bname, color)

RESERVES (Sid, bid, day)

- a) List all the Sid of all the sailors whose age is greater than 45.
- b) Find the names of all the green colored boats.
- c) Find the day on which sailor with Sid=101 had reserved the boat with bid='BT05'
- d) Find the Sid of sailors who have not reserved any boats.

Similar Queries will be posed.. with different schemas