

SECTION-B

2. Draw an ER diagram for library management system which has student, teacher, books, inventory, and requirement? Clearly highlight entities, relationship, primary key, and foreign key?
3. Discuss validation concurrency control technique.
4. Explain why do we need to recover a database with example.
5. How do we deal with constraint violation?
6. Define normalization, structural constraints, interfaces and scheduling.

SECTION-C

7. Consider the following tables :

Part (p_id, p_name, p_cost)

Customer (c_id, p_id, c_name)

Supplier (s_id, s_name, p_id, p_city)

Shop(sh_id, p_id, c_id, s_id, sh_city)

- a. Insert into table part a new column named part details.
 - b. List the name of customer who are from the same city.
 - c. List the customers who have been supplied with minimum number of parts.
8. What is normalization? Why do we need to normalize our database? Explain various normal forms by taking proper examples.
 9. Discuss the importance of following with respect to DBMS :
 - a. Data independence
 - b. Classification
 - c. Granularity