



## SECTION-B

2. What do you understand by Data constraints in SQL? Explain its various types with the help of examples.
3. Explain Data modelling in database. Why would you choose a database system instead of simply storing data in operating system files?
4. Explain, what is meant by a DDBMS, and discuss the motivation in providing such a system, Discuss the advantages and disadvantages of a DDBMS.
5. What is normalization? Compute the closure of the following set F of functional dependencies for relation schema  $R = (A, B, C, D, E)$ .  $A \rightarrow BC$ ,  $CD \rightarrow E$ ,  $B \rightarrow D$ ,  $E \rightarrow A$ . List the candidate keys for R.
6. Explain 3-level architecture of DBMS. Does the relational model provide physical and logical data independence? Explain.
7. Explain various types of JOINS with the help of example. How many rows would a two-table join produce if one table had 50,000 rows and the other had 100,000? What is difference between DELETE & TRUNCATE commands?

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