## Entity Integrity Constraint:

- Rule: No primary key attribute can have a null value.
- Example: In the table where SID is the primary key, every SID must have a value. So, having a null value for SID is not allowed.

SID	Name	Class (semester)	Age
8001	Ankit	1st	19
8002	Srishti	1st	18
8003	Somvir	4th	22
8004	Sourabh	6th	А

## Referential Integrity Constraint:

- Rule: If a foreign key in one table refers to the primary key in another table, every foreign key value must either be null or exist in the referenced table.
- Example: In the second table, the DNO (Department Number) is a foreign key that refers to the DNO in the third table. Every DNO in the second table must be either null or match a DNO in the third table.

ENO	NAME	Age	DNO
1	Ankit	19	10
2	Srishti	18	11
4	Sourabh	22	14

Explain the following constraints : i. Entity integrity constraint. ii. Referential integrity constraint. iii. Domain constraint.

DNO	D.Location
10	Rohtak
11	Bhiwani
12	Hansi

## Domain Constraints:

- Rule: Specifies the allowed set of values for an attribute based on its data type.
- Example: If the Age attribute is defined as an integer, then every value in the Age column must be a valid integer.

SID	Name	Class (semester)	Age
8001	Ankit	1st	19
8002	Srishti	1st	18
8003	Somvir	4th	22
8004	Sourabh	6th	А

These constraints help maintain the accuracy, consistency, and reliability of data in a database.

Related posts:

- 1. What is database management system (DBMS) ? What are the tasks performed by users in DBMS ?
- 2. What are the advantages and disadvantages of DBMS ?

EasyExamNotes.com Explain the following constraints : i. Entity integrity constraint. ii. Referential integrity constraint. iii. Domain constraint. Explain the following constraints : i. Entity integrity constraint. ii. Referential integrity constraint. iii. Domain constraint.

- 3. What do you understand by database users ? Describe the different types of database users.
- 4. Who are data administrators ? What are the functions of database administrator ?OR Discuss the role of database adinistrator.
- 5. What is data abstraction ? Explain different levels of abstraction.
- 6. Explain the differences between physical level,conceptual level and view level of data abstraction.
- 7. Explain the difference between database management system (DBMS) and file system.
- 8. Discuss the architecture of DBMS. What are the types of DBMS architecture ?
- 9. What are data models ? Briefly explain different types of data models.
- 10. Describe data schema and instances.
- 11. Describe data independence with its types
- 12. Describe the classification of database language. Which type of language is SQL ?
- 13. Explain DBMS interfaces. What are the various DBMS interfaces ?
- 14. What is ER model ? What are the elements of ER model ? What are the notations of ER diagram ?
- 15. What do you understand by attributes and domain ?Explain various types of attributes used in conceptual data model.
- 16. Construct an ER diagram for University system.
- 17. Construct an ER diagram for the registrar's office
- Explain the primary key, super key, foreign key and candidate key with example. OR Define key. Explain various types of keys.
- 19. What do you mean by a key to the relation ? Explain the differences between super key, candidate key and primary key.
- 20. Explain generalization, specialization and aggregation. OR Compare generalization, specialization and aggregation with suitable examples.
- 21. What is Unified Modeling Language ? Explain different types of UML.

Explain the following constraints : i. Entity integrity constraint. ii. Referential integrity constraint. iii. Domain constraint.

- 22. What is relational model ? Explain with example.
- 23. Explain constraints and its types.
- 24. Consider the following relations:
- 25. What are the additional operations in relational algebra ?
- 26. Explain integrity constraints.
- 27. Describe mapping constraints with its types.
- 28. Explain how a database is modified in SQL. OR Explain database modification.
- 29. Discuss join and types with suitable example. Define join. Explain different types of join.
- 30. Describe the SQL set operations