

INTEGRITY CONSTRAINT IN DBMS

Integrity constraints help to ensure that data remains reliable and meaningful throughout its lifecycle.

Types of Integrity Constraint:

- Domain Integrity Constraint
- Entity Integrity Constraint
- Referential Integrity Constraint
- Key Constraint
- Check Constraint
- Null Constraint
- Unique Constraint
- Default Constraint

INTEGRITY CONSTRAINT IN DBMS

Domain Integrity Constraint

It ensures the validity and appropriateness of data values (i.e valid data types, ranges, and formats for columns) within a specific column or attribute of a table.

Ex→ Check for date column so that it contains valid date values

INTEGRITY CONSTRAINT IN DBMS

Entity Integrity Constraint

It ensures that each row/record in a table is uniquely identified by a primary key.

It also helps in preventing duplicate or null values in the primary key.

INTEGRITY CONSTRAINT IN DBMS

Referential Integrity Constraint

It ensures that values in a foreign key column match with the values in the corresponding primary key column in another table.

INTEGRITY CONSTRAINT IN DBMS

Key Constraint

It ensures uniqueness for the primary key.

INTEGRITY CONSTRAINT IN DBMS

Check Constraint

It checks for a condition that each row in a table must satisfy.

If the condition is not met, the insertion or update of the row is rejected.

INTEGRITY CONSTRAINT IN DBMS

Null Constraint

It determines whether a column in a table can have null (i.e., missing or unknown) values or not.

INTEGRITY CONSTRAINT IN DBMS

Unique Constraint

It ensures that values in a specified column or combination of columns are unique across a table.

This constraint prevents duplicate values from being inserted into the specified column(s), maintaining data consistency and integrity.

INTEGRITY CONSTRAINT IN DBMS

Default Constraint

It ensures a default value for a column, which is used if no other value is provided