Module 2

Relational database concepts

1. What is the ER model

Entity relational model

It’s a tool used to design relational databases.

Building blocks of ER diagram are entities and attributes.

Entity books and attributes are characteristics pr properties of an entity so, book title book author, and book release year are attributed.

1. Coming to mapping entity becomes the table and attributes are the columns.
2. Primary key-uniquely identifies each row /tuple and avoids duplication (not null, helps for a relationship with other tables
3. The foreign key in one table will be the primary key of other tables. It helps to link another table.
4. Types of SQL statements

DDL and DML

1. DDL Statement

Define, change, or drop data.

CREATE, ALTER, TRUNCATE, DROP

1. DML Statement

Read and modify.

CRUD operations

Insert

Select

Update

Delete

1. CREATE TABLE MUSICSS (ID INT PRIMARY KEY NOT NULL,SINGER VARCHAR(20)) ;
2. ALTER

ALTER TABLE,ALTER COLUMN,ADD COLMUN,ALTER DATATYPE OF COLUMN

ALTER TABLE MUSICSS ADD COLUMN TIMEDURATION INT;

ALTER TABLE MUSICSS ALTER COLUMN TIMEDURATION SET DATA TYPE BIGINT;

ALTER TABLE MUSICSS DROP COLUMN TIMEDURATION ;

1. DROP

DROP TABLE MUSICSS;

1. TRUNCATE

TRUNCATE TABLE MUSICSS;