CASE STUDY 1

DDL

Database

1) Write a query to create a database named ecomm.
2) Write a query to see a list of all databases in the Database Management System.
3) Write a query to drop database ecommerce.

Table creation and column manipulation

1) Write a query to create a table named as userinfo which contains user_id,username,password,email,created_on,. user_id must be unique,not null and auto increment, created_on must be a date field.
2) Write a query to see the table description or structure.
3) Write a query to add mobile_no column after email column in above table.
4) Write a query to rename table userinfo to user.
5) Write a query to change the datatype of created_on from date to datetime.
6) Write a query to Rename column mobile_no to mob_no.
7) Write a SQL statement to rename the table countries to country_new.
8) Write a SQL statement to add a column region_id to the table locations.
9) Write a SQL statement to add a column ID as the first column of the table locations.
10) Write a SQL statement to add a column region_id after state_province to the table locations.
11) Write a SQL statement to change the data type of the column country_id to integer in the table locations.
12) Write a SQL statement to drop the column city from the table locations.
13) Write a SQL statement to change the name of the column state_province to state, keeping the data type and size same.
14) Write a SQL statement to add a primary key for the columns location_id in the locations table.
15) Write a SQL statement to add a foreign key constraint named fk_job_id on the job_id column of the job_history table referencing the primary key job_id of jobs table.
16) Write a SQL statement to drop the existing foreign key fk_job_id from the job_history table on the job_id column which is referencing the job_id of jobs table.
    Note: fk_job_id is a constraint name.
17) Write a SQL statement to add an index named indx_job_id on job_id column in the table job_history.

Constraints

1) Write a query to create product table which contains columns product_id,product_name, price,category,description,image_url,is_deleted. product_id is unique,not null and auto increment.
2) Write a query to create a cart table which contains columns as cart_id,user_id,product_id. cart_id is unique,not null and auto increment,apply foreign key constraint for user_id which takes reference of user_id column from user table,also apply foreign key constraints for product_id which takes reference of product_id from product table.
   Use cascade delete and update options so that if a record is deleted or updated in the parent table user and product it will be reflected in the cart [child] table.