CASE STUDY 1

DDL

Database

1. Write a query to create a database named ecomm.

🡪 create database ecomm;

1. Write a query to see a list of all databases in the Database Management System.

🡪 show databases;

1. Write a query to drop database ecommerce.

🡪 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

🡪

create table userinfo(

user\_id int primary key auto\_increment,

username varchar (10),

password varchar(10),

email varchar(10),

created\_on Date

);

2) Write a query to see the table description or structure.

🡪 desc userinfo;

3) Write a query to add mobile\_no column after email column in above table

🡪 Alter table userinfo

add column mobile\_no int after email;

4) Write a query to rename table userinfo to user

🡪Rename table userinfo to user;

5) Write a query to change the datatype of created\_on from date to datetime.

🡪alter table user

modify created\_on datetime;

6) Write a query to Rename column mobile\_no to mob\_no.

🡪alter table user

change mobile\_no mob\_no int;

7) Write a SQL statement to rename the table countries to country\_new.

🡪Rename table countries to country\_new;

8) Write a SQL statement to add a column region\_id to the table locations.

🡪alter table locations

add column region\_id int;

9) Write a SQL statement to add a column ID as the first column of the table locations.

🡪alter table locations

add column ID int first;

10) Write a SQL statement to add a column region\_id after state\_province to the table locations.

🡪alter table locations

add column region\_id int after state\_province;

11) Write a SQL statement to change the data type of the column country\_id to integer in the table locations.

🡪alter table locations

modify country\_id int;

12) Write a SQL statement to drop the column city from the table locations

🡪alter table locations

drop column city;

13) Write a SQL statement to change the name of the column state\_province to state,

keeping the data type and size same.

* Alter table locations

change state\_province state varchar(20);

14) Write a SQL statement to add a primary key for the columns location\_id in the locations

table

🡪alter table locations

add primary key (location\_id);

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

🡪alter table job\_history

add constraint fk\_job\_id foreign key (job\_id) references jobs (job\_id);

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

🡪 alter table job\_history

drop constraint fk\_job\_id;

alter table job\_history

drop index fk\_job\_id;

17) Write a SQL statement to add an index named indx\_job\_id on job\_id column in the table

job\_history.

🡪 alter table job\_history

add index index\_job\_id(job\_id);

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

🡪 create table product(

product\_id int ,

product\_name varchar(10),

price int ,

category varchar(10),

description varchar(10),

image\_url varchar(20),

is\_deleted varchar(20) );

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.

🡪create table cart(

cart\_id int primary key auto\_increment,

user\_id int,

product\_id int,

foreign key (user\_id) references user(user\_id),

foreign key (product\_id) references product(product\_id) );