

## DDL

### Database

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

=> create database ecomm;

**2) Write a query to see a list of all databases in the Database Management System.**

=> show databases;

**3) Write a query to drop database ecommerce.**

=> drop database ecommerce;

### Table creation and column manipulation

**1) Write query to create a table named as userinfo which contains user\_id, user\_name, 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 query to see the table description or structure**

=> desc userinfo;

**3) Write 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 datatype and size same.**

=> alter table locations

change state\_province state varchar(10);

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

=> alter table locations

add constraint 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 index\_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 primary key auto_increment,  
product_name varchar(10),  
price decimal(7,2),  
category varchar(10),  
description varchar(20),  
image_url varchar(20),  
is_deleted varchar(10));
```

- 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));
```