• Create new database called bootcamp\_db

create database bootcamp\_db

• Create two tables categories with id & name and products with id, name , price and categoryId as forignkey

• price must be 4 digits in total with 2 digits after decimal point

use bootcamp\_db;

create table categories (id int primary key auto\_increment,name varchar(255)not null);

create table products (id int primary key auto\_increment,name varchar(255)not null,price decimal(4,2),categoryId int not null,foreign key(categoryId) references categories(id));

• insert 3 rows in categories table with name Smartphone, Smartwatch, Laptop ( same letter case )

insert into categories (name) values("Smartphone"),("Smartwatch"),("Laptop");

• select name only for top 2 rows of categories

select name from categories where id<=2;

insert 4 products in table o ('iPhone', 300.4, 1), o ('Galaxy Note', 60.5 , 1), o ('Apple Watch', 20.3, 2), o ('Samsung Galary Watch', 30.698 ,2);

MariaDB [bootcamp\_db]> insert into products (name,price,categoryId) values ('iPhone', 300.4, 1);

Query OK, 1 row affected, 1 warning (0.005 sec)

MariaDB [bootcamp\_db]> insert into products (name,price,categoryId) values ('Galaxy Note', 60.5 , 1);

Query OK, 1 row affected (0.004 sec)

MariaDB [bootcamp\_db]> insert into products (name,price,categoryId) values ('Apple Watch', 20.3, 2);

Query OK, 1 row affected (0.005 sec)

MariaDB [bootcamp\_db]> insert into products (name,price,categoryId) values ('Samsung Galary Watch', 30.698 ,2);

Query OK, 1 row affected, 1 warning (0.010 sec)

MariaDB [bootcamp\_db]> select \* from products;

+----+----------------------+-------+------------+

| id | name | price | categoryId |

+----+----------------------+-------+------------+

| 1 | iPhone | 99.99 | 1 |

| 2 | Galaxy Note | 60.50 | 1 |

| 3 | Apple Watch | 20.30 | 2 |

| 4 | Samsung Galary Watch | 30.70 | 2 |

• find all products where name contains “la” in their name

select \* from products where name like "%la%";

• Update name of category with id 1 to any thing you want

update categoreis set name="asd" where id=1;

• Select the most 2 recent products

select \* from products order by id desc limit 2;

• find all categories where name contains “smart” in their name

select \* from categories where name like "smart;

Microsoft Windows [Version 10.0.18363.1316]

(c) 2019 Microsoft Corporation. All rights reserved.

C:\xampp\mysql\bin>mysql -u root -p

Enter password:

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 64

Server version: 10.4.25-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show database;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'database' at line 1

MariaDB [(none)]> show databases;

+--------------------+

| Database |

+--------------------+

| coursephpp |

| information\_schema |

| mysql |

| noteapp |

| performance\_schema |

| phpmyadmin |

| test |

+--------------------+

7 rows in set (0.001 sec)

MariaDB [(none)]> show schemes;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'schemes' at line 1

MariaDB [(none)]> show schemas;

+--------------------+

| Database |

+--------------------+

| coursephpp |

| information\_schema |

| mysql |

| noteapp |

| performance\_schema |

| phpmyadmin |

| test |

+--------------------+

7 rows in set (0.000 sec)

MariaDB [(none)]> create database e\_lib

->

->

-> ;

Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> show databases;

+--------------------+

| Database |

+--------------------+

| coursephpp |

| e\_lib |

| information\_schema |

| mysql |

| noteapp |

| performance\_schema |

| phpmyadmin |

| test |

+--------------------+

8 rows in set (0.001 sec)

MariaDB [(none)]> use e\_lib;

Database changed

MariaDB [e\_lib]> show tables;

Empty set (0.000 sec)

MariaDB [e\_lib]> create table authors (id int primary key increment,name varchar(255) not null ,email varchar(255) not null);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'increment,name varchar(255) not null ,email varchar(255) not null)' at line 1

MariaDB [e\_lib]> create table authors (id int primary key auto\_increment,name varchar(255) not null ,email varchar(255) not null);

Query OK, 0 rows affected (0.092 sec)

MariaDB [e\_lib]> describe authors

-> ;

+-------+--------------+------+-----+---------+----------------+

| Field | Type | Null | Key | Default | Extra |

+-------+--------------+------+-----+---------+----------------+

| id | int(11) | NO | PRI | NULL | auto\_increment |

| name | varchar(255) | NO | | NULL | |

| email | varchar(255) | NO | | NULL | |

+-------+--------------+------+-----+---------+----------------+

3 rows in set (0.014 sec)

MariaDB [e\_lib]> create table categories (category\_id int primary key auto\_increment,category\_name varchar(255 not null) not null ,category\_image(255));

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'not null) not null ,category\_image(255))' at line 1

MariaDB [e\_lib]> create table categories (category\_id int primary key auto\_increment,category\_name varchar(255) not null ,category\_image(255));

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '(255))' at line 1

MariaDB [e\_lib]> create table categories (category\_id int primary key auto\_increment,category\_name varchar(255) not null ,category\_image varchar(255));

Query OK, 0 rows affected (0.027 sec)

MariaDB [e\_lib]> describe categories;

+----------------+--------------+------+-----+---------+----------------+

| Field | Type | Null | Key | Default | Extra |

+----------------+--------------+------+-----+---------+----------------+

| category\_id | int(11) | NO | PRI | NULL | auto\_increment |

| category\_name | varchar(255) | NO | | NULL | |

| category\_image | varchar(255) | YES | | NULL | |

+----------------+--------------+------+-----+---------+----------------+

3 rows in set (0.014 sec)

MariaDB [e\_lib]> create table publisher (publisher\_id int primary key auto\_increment,publisher\_name varchar(255)not null,publisher\_address varchar(255)not null,publisher\_phone varchar(255)not null,publisher\_email varchar(255)not null);

Query OK, 0 rows affected (0.058 sec)

MariaDB [e\_lib]> describe publisher;

+-------------------+--------------+------+-----+---------+----------------+

| Field | Type | Null | Key | Default | Extra |

+-------------------+--------------+------+-----+---------+----------------+

| publisher\_id | int(11) | NO | PRI | NULL | auto\_increment |

| publisher\_name | varchar(255) | NO | | NULL | |

| publisher\_address | varchar(255) | NO | | NULL | |

| publisher\_phone | varchar(255) | NO | | NULL | |

| publisher\_email | varchar(255) | NO | | NULL | |

+-------------------+--------------+------+-----+---------+----------------+

5 rows in set (0.028 sec)

MariaDB [e\_lib]> rename table publisher to publishers;

Query OK, 0 rows affected (0.016 sec)

MariaDB [e\_lib]> show tables;

+-----------------+

| Tables\_in\_e\_lib |

+-----------------+

| authors |

| categories |

| publishers |

+-----------------+

3 rows in set (0.001 sec)

MariaDB [e\_lib]> create table books(book\_id int primary key auto\_increment,book\_name varchar(255) not null,price float not null,publish\_date date default(now()) ,author\_id int not null,category\_id int not null,publisher\_id int not null,foriegn key(author\_id) references authors(id),foriegn key(category\_id)references categories(category\_id),foriegn key(publisher\_id)references publishers(publisher\_id) );

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'key(author\_id) references authors(id),foriegn key(category\_id)references cate...' at line 1

MariaDB [e\_lib]> create table books(book\_id int primary key auto\_increment,book\_name varchar(255) not null,price float not null,publish\_date date default(now()) ,author\_id int not null,category\_id int not null,publisher\_id int not null,foriegn key(author\_id) references authors(id),foriegn key(category\_id)references categories(category\_id),foriegn key(publisher\_id)references publishers(publisher\_id) );

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'key(author\_id) references authors(id),foriegn key(category\_id)references cate...' at line 1

MariaDB [e\_lib]> create table books(book\_id int primary key auto\_increment,book\_name varchar(255) not null,price float not null,publish\_date date default(now()) ,author\_id int not null,category\_id int not null,publisher\_id int not null,foriegn key(author\_id) references authors(id),foriegn key(category\_id)references categories(category\_id),foriegn key(publisher\_id)references publishers(publisher\_id) );

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'key(author\_id) references authors(id),foriegn key(category\_id)references cate...' at line 1

MariaDB [e\_lib]> create table books(book\_id int primary key auto\_increment,book\_name varchar(255) not null,price float not null,publish\_date date default(now()) ,author\_id int not null,category\_id int not null,publisher\_id int not null,foriegn key(author\_id) references authors(id),foriegn key(category\_id)references categories(category\_id),foriegn key(publisher\_id)references publishers(publisher\_id) );

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'key(author\_id) references authors(id),foriegn key(category\_id)references cate...' at line 1

MariaDB [e\_lib]> create table books(book\_id int primary key auto\_increment,book\_name varchar(255) not null,price float not null,publish\_date date default(now()),author\_id int not null,category\_id int not null,publisher\_id int not null,foriegn key(author\_id) references authors(id),foriegn key(category\_id)references categories(category\_id),foriegn key(publisher\_id)references publishers(publisher\_id) );

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'key(author\_id) references authors(id),foriegn key(category\_id)references cate...' at line 1

MariaDB [e\_lib]> create table books(book\_id int primary key auto\_increment,book\_name varchar(255) not null,price float not null,publish\_date date default(now()),author\_id int not null,category\_id int not null,publisher\_id int not null,foreign key(author\_id) references authors(id),foreign key(category\_id)references categories(category\_id),foreign key(publisher\_id)references publishers(publisher\_id) );

Query OK, 0 rows affected (0.118 sec)

MariaDB [e\_lib]> describe books;

+--------------+--------------+------+-----+---------------------+----------------+

| Field | Type | Null | Key | Default | Extra |

+--------------+--------------+------+-----+---------------------+----------------+

| book\_id | int(11) | NO | PRI | NULL | auto\_increment |

| book\_name | varchar(255) | NO | | NULL | |

| price | float | NO | | NULL | |

| publish\_date | date | YES | | current\_timestamp() | |

| author\_id | int(11) | NO | MUL | NULL | |

| category\_id | int(11) | NO | MUL | NULL | |

| publisher\_id | int(11) | NO | MUL | NULL | |

+--------------+--------------+------+-----+---------------------+----------------+

7 rows in set (0.032 sec)

MariaDB [e\_lib]> inset into categories values (null,'cookeis','cookies.png'),(null,'cookies2','cookies3.png'),(null,'cookies3','cookies.png');

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'inset into categories values (null,'cookeis','cookies.png'),(null,'cookies2',...' at line 1

MariaDB [e\_lib]> inset into categories values (1,'cookeis','cookies.png'),(null,'cookies2','cookies3.png'),(null,'cookies3','cookies.png');

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'inset into categories values (1,'cookeis','cookies.png'),(null,'cookies2','co...' at line 1

MariaDB [e\_lib]> insert into categories values (1,'cookeis','cookies.png'),(null,'cookies2','cookies3.png'),(null,'cookies3','cookies.png');

Query OK, 3 rows affected (0.005 sec)

Records: 3 Duplicates: 0 Warnings: 0

MariaDB [e\_lib]> select \* from categories;

+-------------+---------------+----------------+

| category\_id | category\_name | category\_image |

+-------------+---------------+----------------+

| 1 | cookeis | cookies.png |

| 2 | cookies2 | cookies3.png |

| 3 | cookies3 | cookies.png |

+-------------+---------------+----------------+

3 rows in set (0.001 sec)

MariaDB [e\_lib]> Bye

Ctrl-C -- exit!

C:\xampp\mysql\bin>mysql -u root -p

Enter password:

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 133

Server version: 10.4.25-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> create database bootcamp\_db;

Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> use bootcamp\_db;

Database changed

MariaDB [bootcamp\_db]> create table categories (id int primary key auto\_increment,name varchar(255)not null);

Query OK, 0 rows affected (0.366 sec)

MariaDB [bootcamp\_db]> create table products (id int primary key auto\_increment,name varchar(255)not null,price decimal(4,2),categoryId int not null,foreign key(categoryId) references categories(id));

Query OK, 0 rows affected (0.044 sec)

MariaDB [bootcamp\_db]> insert into categories (name) values("Smartphone"),("Smartwatch"),("Laptop");

Query OK, 3 rows affected (0.427 sec)

Records: 3 Duplicates: 0 Warnings: 0

MariaDB [bootcamp\_db]> select name from categories where id<=2;

+------------+

| name |

+------------+

| Smartphone |

| Smartwatch |

+------------+

2 rows in set (0.003 sec)

MariaDB [bootcamp\_db]> insert into products 'iPhone', 300.4, 1),

-> o ('Galaxy Note', 60.5 , 1),

-> o ('Apple Watch', 20.3, 2),

-> Bye

Ctrl-C -- exit!

C:\xampp\mysql\bin>mysql -u root -p

Enter password:

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 140

Server version: 10.4.25-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use bootcamp\_db;

Database changed

MariaDB [bootcamp\_db]> insert into products values ('iPhone', 300.4, 1);

ERROR 1136 (21S01): Column count doesn't match value count at row 1

MariaDB [bootcamp\_db]> insert into products values ('Galaxy Note', 60.5 , 1);

ERROR 1136 (21S01): Column count doesn't match value count at row 1

MariaDB [bootcamp\_db]> insert into products (name,price,categoryId) values ('iPhone', 300.4, 1);

Query OK, 1 row affected, 1 warning (0.005 sec)

MariaDB [bootcamp\_db]> insert into products (name,price,categoryId) values ('Galaxy Note', 60.5 , 1);

Query OK, 1 row affected (0.004 sec)

MariaDB [bootcamp\_db]> insert into products (name,price,categoryId) values ('Apple Watch', 20.3, 2);

Query OK, 1 row affected (0.005 sec)

MariaDB [bootcamp\_db]> insert into products (name,price,categoryId) values ('Samsung Galary Watch', 30.698 ,2);

Query OK, 1 row affected, 1 warning (0.010 sec)

MariaDB [bootcamp\_db]> select \* from products;

+----+----------------------+-------+------------+

| id | name | price | categoryId |

+----+----------------------+-------+------------+

| 1 | iPhone | 99.99 | 1 |

| 2 | Galaxy Note | 60.50 | 1 |

| 3 | Apple Watch | 20.30 | 2 |

| 4 | Samsung Galary Watch | 30.70 | 2 |

+----+----------------------+-------+------------+

4 rows in set (0.001 sec)

MariaDB [bootcamp\_db]> select \* products where name like "la";

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'products where name like "la"' at line 1

MariaDB [bootcamp\_db]> select \* products like name="la";

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'products like name="la"' at line 1

MariaDB [bootcamp\_db]> select \* products ;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'products' at line 1

MariaDB [bootcamp\_db]> select \* from products ;

+----+----------------------+-------+------------+

| id | name | price | categoryId |

+----+----------------------+-------+------------+

| 1 | iPhone | 99.99 | 1 |

| 2 | Galaxy Note | 60.50 | 1 |

| 3 | Apple Watch | 20.30 | 2 |

| 4 | Samsung Galary Watch | 30.70 | 2 |

+----+----------------------+-------+------------+

4 rows in set (0.001 sec)

MariaDB [bootcamp\_db]> select \* from products where name like "la";

Empty set (0.001 sec)

MariaDB [bootcamp\_db]> select \* from products where name like "la%";

Empty set (0.001 sec)

MariaDB [bootcamp\_db]> select \* from products where name like "%la%";

+----+----------------------+-------+------------+

| id | name | price | categoryId |

+----+----------------------+-------+------------+

| 2 | Galaxy Note | 60.50 | 1 |

| 4 | Samsung Galary Watch | 30.70 | 2 |

+----+----------------------+-------+------------+

2 rows in set (0.001 sec)

MariaDB [bootcamp\_db]> select \* from product where price<=100;

ERROR 1146 (42S02): Table 'bootcamp\_db.product' doesn't exist

MariaDB [bootcamp\_db]> select \* from products where price<=100;

+----+----------------------+-------+------------+

| id | name | price | categoryId |

+----+----------------------+-------+------------+

| 1 | iPhone | 99.99 | 1 |

| 2 | Galaxy Note | 60.50 | 1 |

| 3 | Apple Watch | 20.30 | 2 |

| 4 | Samsung Galary Watch | 30.70 | 2 |

+----+----------------------+-------+------------+

4 rows in set (0.001 sec)

MariaDB [bootcamp\_db]> update categoreis set name="asd" where id=1;

ERROR 1146 (42S02): Table 'bootcamp\_db.categoreis' doesn't exist

MariaDB [bootcamp\_db]> update categories set name="asd" where id=1;

Query OK, 1 row affected (0.004 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [bootcamp\_db]> select \* from categories;

+----+------------+

| id | name |

+----+------------+

| 1 | asd |

| 2 | Smartwatch |

| 3 | Laptop |

+----+------------+

3 rows in set (0.000 sec)

MariaDB [bootcamp\_db]> select (top 2)\*from • Update name of category with id 1 to any thing you want

-> select (top 2)\*from • Update name of category with id 1 to any thing you want;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '2)\*from ? Update name of category with id 1 to any thing you want

select (top...' at line 1

MariaDB [bootcamp\_db]> select (top 2)\*from categories;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '2)\*from categories' at line 1

MariaDB [bootcamp\_db]> select (top(2))\*from categories;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'from categories' at line 1

MariaDB [bootcamp\_db]> select fields from products order by id desc limit 2;

ERROR 1054 (42S22): Unknown column 'fields' in 'field list'

MariaDB [bootcamp\_db]> select \* from products order by id desc limit 2;

+----+----------------------+-------+------------+

| id | name | price | categoryId |

+----+----------------------+-------+------------+

| 4 | Samsung Galary Watch | 30.70 | 2 |

| 3 | Apple Watch | 20.30 | 2 |

+----+----------------------+-------+------------+

2 rows in set (0.001 sec)

MariaDB [bootcamp\_db]> select \* from categories where name like "%smart%;

">

"> ;

"> select \* from categories where name like "%smart%;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '' at line 1

MariaDB [bootcamp\_db]> select \* from categories where name like "%smart%";

+----+------------+

| id | name |

+----+------------+

| 2 | Smartwatch |

+----+------------+

1 row in set (0.001 sec)

MariaDB [bootcamp\_db]> select \* from categories where name like "smart%";

+----+------------+

| id | name |

+----+------------+

| 2 | Smartwatch |

+----+------------+

1 row in set (0.000 sec)

MariaDB [bootcamp\_db]> select \* from categories where name like "smart";

Empty set (0.000 sec)

MariaDB [bootcamp\_db]> update categories set name="smart" where id=1;

Query OK, 1 row affected (0.010 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [bootcamp\_db]> select \* from categories where name like "smart";

+----+-------+

| id | name |

+----+-------+

| 1 | smart |

+----+-------+

1 row in set (0.000 sec)

MariaDB [bootcamp\_db]>"