CO226-Database Systems

Lab Sheet Number: 03

Topic: Introduction to MySQL

Lab Date: 15/12/2021

Wijerathne E.S.G.

E/18/397

Lab task:

Create a suitable database to store data coming from the HTML page you have created in Lab 1. First, log into MySQL server and create a database named E18XXXLab03. Then create a suitable table in the database to store customer order details. When creating the table, choose suitable attribute names and data types for each field. Selecta suitable attribute as the primary key for the table. Refer MySQL documentation for the details. Submit SQL DDL statements used to create the table above as a text file. Populate the table with some data. Then write a few SQL statements to update and delete data in the table.

Creating the database

```
mysql> show databases;
 Database
  bookshop
 chk
 information_schema
  mysql
  performance_schema
  sakila
  sql_hr
 sql_inventory
 sql_invoicing
 sql_store
 svs
 world
12 rows in set (0.01 sec)
mysql> create database E18397Lab03;
Query OK, 1 row affected (0.01 sec)
mysql> use E18397Lab03;
Database changed
```

Creating the table

```
mysql> create table order_details(
    -> order_no int NOT NULL AUTO_INCREMENT,
    -> size char(1),
    -> color varchar(15),
    -> cap bit,
    -> wband bit,
    -> fname varchar(20),
    -> lname varchar(20),
    -> addr1 varchar(40),
    -> addr2 varchar(40),
    -> addr3 varchar(40),
    -> comments varchar(50),
    -> PRIMARY KEY (order_no)
    -> );
Query OK, 0 rows affected (0.08 sec)
mysql> desc order_details;
  Field
                            Null | Key | Default | Extra
             Type
  order_no
             int
                            NO
                                   PRI
                                          NULL
                                                    auto_increment
             char(1)
                            YES
                                          NULL
  size
             varchar(15)
  color
                            YES
                                          NULL
             bit(1)
                            YES
                                          NULL
  cap
             bit(1)
                            YES
 wband
                                          NULL
 fname
             varchar(20)
                            YES
                                          NULL
  lname
             varchar(20)
                            YES
                                          NULL
             varchar(40)
                            YES
                                          NULL
  addr1
  addr2
             varchar(40)
                            YES
                                          NULL
             varchar(40)
                            YES
                                          NULL
           | varchar(50)
                            YES
                                          NULL
  comments
11 rows in set (0.01 sec)
```

Populating the table with values

```
mysql> insert into order_details(size, color, cap, wband, fname, lname, addr1, addr2, addr3, comments )
   -> values ('M','Green', 1,1, 'Kusal', 'Mendis', '99', 'Sea street', 'Colombo 05', 'Good shopping experience' ),
   -> ('M','Red', 1,1, 'Ramesh', 'Mendis', '568', 'Havelock road', 'Colombo', 'Good customer service' ),
   -> ('L','Purple', 0,1, 'Kusal', 'Perera', '182/2', 'Wawala Junction', 'Piliyandala', 'Use good courier service' ),
   -> ('S','Red', 1,1, 'Pathum', 'Nissanka', 'Thisara', 'Hospital road', 'Maharagama', 'send quickly' ),
   -> ('M','Blue', 1,0, 'Charith', 'Asalanka', 'B 2/3', 'Govt, Flats', 'Dehiwala', 'send the package ass soon as possible' ),
   -> ('L','Green', 0,0, 'Anjelo', 'Mathews', '853/2', 'Senanayake Aveneue', 'Rajagiriya', 'Send this before next saturaday' )
   -> ;
   Query OK, 6 rows affected (0.01 sec)
   Records: 6 Duplicates: 0 Warnings: 0
```

n	ysql> seled	t * fr	* from order_details;									
į	order_no	size	color	сар	wband	fname	lname	addr1	addr2	addr3	comments	
į	1 2 3 4 5 6	M L S M L	Green Red Purple Red Blue Green	0x01 0x01 0x00 0x01 0x01 0x01	0x01 0x01 0x01 0x01 0x00 0x00	Kusal Ramesh Kusal Pathum Charith Anjelo	Mendis Mendis Perera Nissanka Asalanka Mathews	99 568 182/2 Thisara B 2/3 853/2	Sea street Havelock road Wawala Junction Hospital road Govt, Flats Senanayake Aveneue	Colombo	Good shopping experience Good customer service Use good courier service send quickly send the package as soon as possible Send this before next saturaday	
6	6 rows in set (0.00 sec)											

mysql

Updating entries in the table

```
update order details set cap = 1 where cap =0:
Query OK, 2 rows affected (0.03 sec)
Rows matched: 2 Changed: 2 Warnings: 0
mysql> select * from order_details;
  order_no | size | color
                                                                       wband
                                                                                                 fname
                                                                                                                  lname
                                                                                                                                     addr1
                                                                                                                                                       addr2
                                                                                                                                                                                           addr3
                                                                                                                                                                                                                    comments
                                                                                                                                                                                                                   Good shopping experience
Good customer service
Use good courier service
send quickly
send the package as soon as possible
Send this before next saturaday
                                                                                                                                     99
568
182/2
                                 Green
Red
Purple
                                                                                                                  Mendis
Mendis
Perera
                    M
L
S
                                                                       0x01
                                                                                                  Kusal
                                                                                                                                                       Sea street
                                                                                                                                                                                            Colombo 05
                                                0x01
0x01
0x01
0x01
0x01
                                                                                                                                                       Havelock road
Wawala Junction
Hospital road
Govt, Flats
                                                                       0x01
0x01
                                                                                                 Ramesh
Kusal
                                                                                                                                                                                            Colombo
Piliyandala
                                                                       0x01
0x00
                                                                                                 Pathum
Charith
                                                                                                                  Nissanka
Asalanka
Mathews
                                                                                                                                     Thisara
B 2/3
853/2
                                                                                                                                                                                            Maharagama
Dehiwala
                                  Red
                                 Green
                                                 0x01
                                                                       0x00
                                                                                                  Anielo
                                                                                                                                                       Senanayake Aveneue
                                                                                                                                                                                            Rajagiriya
.
6 rows in set (0.00 sec)
```

mysql> update order_details set size='L' Query OK, 1 row affected (0.01 sec) Rows matched: 1 Changed: 1 Warnings: 0 t size='L' where order_no = 5; mysql> select * from order_details; | order no | size | color | fname lname l addr3 | wband l addr1 addr2 comments Kusal Mendis Sea street Havelock road Wawala Junction Hospital road Colombo 05 Good shopping experience Good customer service Use good courier service Green 0x01 0x01 M L S Red Purple Red 0x01 0x01 0x01 Ramesh Kusal Pathum 568 182/2 Thisara 0x01 0x01 Colombo Piliyandala Mendis Perera Maharagama Dehiwala Rajagiriya send quickly send the package as soon as possible Send this before next saturaday Nissanka 0x01 Blue Green 0x01 0x01 0x00 0x00 Charith Anjelo Asalanka Mathews B 2/3 853/2 Govt, Flats Senanayake Aveneue 6 rows in set (0.00 sec) mysql>

1 where size ='L'; Query OK, 2 rows affected (0.01 sec) Rows matched: 3 Changed: 2 Warnings: 0 mysgl> select * from order_details; order_no | size | color fname addr1 addr3 99 568 182/2 Thisara B 2/3 853/2 Sea street Havelock road Wawala Junction Hospital road Govt, Flats Senanayake Aveneue Good shopping experience
Good customer service
Use good courier service
send quickly
send the package as soon as possible
Send this before next saturaday Green Red Purple Red 0x01 0x01 0x01 Colombo 05 Colombo Piliyandala 0x01 Kusal Mendis 0x01 0x01 Ramesh Kusal Perera Maharagama Dehiwala Rajagiriya 0x01 0x01 Pathum Nissanka Blue Green Charith Anjelo Asalanka Mathews rows in set (0.00 sec) mysql>

Deleting entries in the table

mysql> delete from order_details where order_no =3; Query OK, 1 row affected (0.01 sec) wband fname lname addr1 addr3 order_no | size | color | cap addr2 | comments 0x01 0x01 0x01 Sea street Havelock road Hospital road 0x01 0x01 99 568 Thisara Colombo 05 Colombo Good shopping experience Good customer service Mendis Nissanka Ramesh Pathum send quickly send the package as soon as possible Send this before next saturaday Red 0x01 Blue Gree 0x01 0x01 0x01 Charith Asalanka Dehiwala 5 rows in set (0.00 sec) mysql>

mysql> delete from order_details where size ='S';
Query OK, 1 row affected (0.01 sec) mysql> select * from order_details; order_no | size | color | cap l wband | fname | lname Laddr1 Laddr2 addr3 I comments Good shopping experience Good customer service send the package as soon as possible Send this before next saturaday Mendis Colombo 05 0x01 0x01 Kusal Sea street Havelock road Govt, Flats Senanayake Aveneue Colombo Dehiwala Rajagiriya Red 0x01 0x01 Ramesh Mendis 568 Blue Green Asalanka Mathews B 2/3 853/2 4 rows in set (0.00 sec) mysql>

```
<code>mysql></code> delete from order_details where color='Green' and size='M'; Query OK, 1 row affected (0.01 sec)
mysql> select * from order_details;
 | order_no | size | color | cap
                                             wband
                                                              | fname
                                                                         | lname
                                                                                      | addr1 | addr2
                                                                                                                        addr3
                      Red
Blue
Green
                               0x01
0x01
0x01
                                              0x01
0x01
0x01
                                                               Ramesh
Charith
Anjelo
                                                                           Mendis
Asalanka
Mathews
                                                                                      | 568
| B 2/3
| 853/2
                                                                                               3 rows in set (0.00 sec)
mysql>|
```

• Again, inserting an entry to table

```
mysql> insert into order_details(size, color, cap, wband, fname, lname, addr1, addr2, addr3, comments )
-> values ('M','Green', 1,1, 'Kusal', 'Mendis', '99', 'Sea street', 'Colombo 05', 'Good shopping experience' );
Query OK, 1 row affected (0.01 sec)
mysql> select * from order_details;
| order_no | size | color | cap
                                                                                wband
                                                                                                              | fname
                                                                                                                                   | lname
                                                                                                                                                         | addr1 | addr2
                                                                                                                                                                                                                     addr3
                                                                                                                                                           568
B 2/3
853/2
99
                                                                                                                 Ramesh
Charith
Anjelo
Kusal
                                                                                                                                      Mendis
Asalanka
Mathews
Mendis
                                                                                                                                                                            Havelock road
Govt, Flats
Senanayake Aveneue
Sea street
                                                                                                                                                                                                                       Colombo | Good customer service
Dehiwala | send the package as soon as possible
Rajagiriya | Send this before next saturaday
Colombo 05 | Good shopping experience
                 2 | M
5 | L
6 | L
7 | M
                                       Red
Blue
                                                      0x01
0x01
0x01
0x01
                                                                                  0x01
0x01
0x01
                                       Green
Green
4 rows in set (0.00 sec)
```