

CO226-Database Systems

Lab Sheet Number: 03

Topic: Introduction to MySQL

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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. Select a 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 |
| sys      |
| 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	Type	Null	Key	Default	Extra
order_no	int	NO	PRI	NULL	auto_increment
size	char(1)	YES		NULL	
color	varchar(15)	YES		NULL	
cap	bit(1)	YES		NULL	
wband	bit(1)	YES		NULL	
fname	varchar(20)	YES		NULL	
lname	varchar(20)	YES		NULL	
addr1	varchar(40)	YES		NULL	
addr2	varchar(40)	YES		NULL	
addr3	varchar(40)	YES		NULL	
comments	varchar(50)	YES		NULL	

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 Avenueue', 'Rajagiriya', 'Send this before next saturaday' )
-> ;
```

Query OK, 6 rows affected (0.01 sec)

Records: 6 Duplicates: 0 Warnings: 0

```
mysql> select * from order_details;
```

order_no	size	color	cap	wband	fname	lname	addr1	addr2	addr3	comments
1	M	Green	0x01	0x01	Kusal	Mendis	99	Sea street	Colombo 05	Good shopping experience
2	M	Red	0x01	0x01	Ramesh	Mendis	568	Havelock road	Colombo	Good customer service
3	L	Purple	0x00	0x01	Kusal	Perera	182/2	Wawala Junction	Piliyandala	Use good courier service
4	S	Red	0x01	0x01	Pathum	Nissanka	Thisara	Hospital road	Maharagama	send quickly
5	M	Blue	0x01	0x00	Charith	Asalanka	B 2/3	Govt, Flats	Dehiwala	send the package as soon as possible
6	L	Green	0x00	0x00	Anjelo	Mathews	853/2	Senanayake Avenueue	Rajagiriya	Send this before next saturaday

6 rows in set (0.00 sec)

```
mysql>
```

- Updating entries in the table

```
mysql> 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	cap	wband	fname	lname	addr1	addr2	addr3	comments
1	M	Green	0x01	0x01	Kusal	Mendis	99	Sea street	Colombo 05	Good shopping experience
2	M	Red	0x01	0x01	Ramesh	Mendis	568	Havelock road	Colombo	Good customer service
3	L	Purple	0x01	0x01	Kusal	Perera	182/2	Wawala Junction	Piliyandala	Use good courier service
4	S	Red	0x01	0x01	Pathum	Nissanka	Thisara	Hospital road	Maharagama	send quickly
5	M	Blue	0x01	0x00	Charith	Asalanka	B 2/3	Govt, Flats	Dehiwala	send the package as soon as possible
6	L	Green	0x01	0x00	Anjelo	Mathews	853/2	Senanayake Avenue	Rajagiriya	Send this before next saturaday

```
6 rows in set (0.00 sec)
```

```
mysql>
```

```
mysql> update order_details set size='L' where order_no = 5;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select * from order_details;
```

order_no	size	color	cap	wband	fname	lname	addr1	addr2	addr3	comments
1	M	Green	0x01	0x01	Kusal	Mendis	99	Sea street	Colombo 05	Good shopping experience
2	M	Red	0x01	0x01	Ramesh	Mendis	568	Havelock road	Colombo	Good customer service
3	L	Purple	0x01	0x01	Kusal	Perera	182/2	Wawala Junction	Piliyandala	Use good courier service
4	S	Red	0x01	0x01	Pathum	Nissanka	Thisara	Hospital road	Maharagama	send quickly
5	L	Blue	0x01	0x00	Charith	Asalanka	B 2/3	Govt, Flats	Dehiwala	send the package as soon as possible
6	L	Green	0x01	0x00	Anjelo	Mathews	853/2	Senanayake Avenue	Rajagiriya	Send this before next saturaday

```
6 rows in set (0.00 sec)
```

```
mysql> |
```

```
mysql> update order_details set wband = 1 where size ='L';
Query OK, 2 rows affected (0.01 sec)
Rows matched: 3 Changed: 2 Warnings: 0
```

```
mysql> select * from order_details;
```

order_no	size	color	cap	wband	fname	lname	addr1	addr2	addr3	comments
1	M	Green	0x01	0x01	Kusal	Mendis	99	Sea street	Colombo 05	Good shopping experience
2	M	Red	0x01	0x01	Ramesh	Mendis	568	Havelock road	Colombo	Good customer service
3	L	Purple	0x01	0x01	Kusal	Perera	182/2	Wawala Junction	Piliyandala	Use good courier service
4	S	Red	0x01	0x01	Pathum	Nissanka	Thisara	Hospital road	Maharagama	send quickly
5	L	Blue	0x01	0x01	Charith	Asalanka	B 2/3	Govt, Flats	Dehiwala	send the package as soon as possible
6	L	Green	0x01	0x01	Anjelo	Mathews	853/2	Senanayake Avenue	Rajagiriya	Send this before next saturaday

```
6 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)
```

```
mysql> select * from order_details;
```

order_no	size	color	cap	wband	fname	lname	addr1	addr2	addr3	comments
1	M	Green	0x01	0x01	Kusal	Mendis	99	Sea street	Colombo 05	Good shopping experience
2	M	Red	0x01	0x01	Ramesh	Mendis	568	Havelock road	Colombo	Good customer service
4	S	Red	0x01	0x01	Pathum	Nissanka	Thisara	Hospital road	Maharagama	send quickly
5	L	Blue	0x01	0x01	Charith	Asalanka	B 2/3	Govt, Flats	Dehiwala	send the package as soon as possible
6	L	Green	0x01	0x01	Anjelo	Mathews	853/2	Senanayake Avenue	Rajagiriya	Send this before next saturaday

```
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	wband	fname	lname	addr1	addr2	addr3	comments
1	M	Green	0x01	0x01	Kusal	Mendis	99	Sea street	Colombo 05	Good shopping experience
2	M	Red	0x01	0x01	Ramesh	Mendis	568	Havelock road	Colombo	Good customer service
5	L	Blue	0x01	0x01	Charith	Asalanka	B 2/3	Govt, Flats	Dehiwala	send the package as soon as possible
6	L	Green	0x01	0x01	Anjelo	Mathews	853/2	Senanayake Avenue	Rajagiriya	Send this before next saturaday

```
4 rows in set (0.00 sec)
```

```
mysql> |
```

```
mysql> 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	comments
2	M	Red	0x01	0x01	Ramesh	Mendis	568	Havelock road	Colombo	Good customer service
5	L	Blue	0x01	0x01	Charith	Asalanka	B 2/3	Govt, Flats	Dehiwala	send the package as soon as possible
6	L	Green	0x01	0x01	Anjelo	Mathews	853/2	Senanayake Avenue	Rajagiriya	Send this before next saturaday

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	comments
2	M	Red	0x01	0x01	Ramesh	Mendis	568	Havelock road	Colombo	Good customer service
5	L	Blue	0x01	0x01	Charith	Asalanka	B 2/3	Govt, Flats	Dehiwala	send the package as soon as possible
6	L	Green	0x01	0x01	Anjelo	Mathews	853/2	Senanayake Avenue	Rajagiriya	Send this before next saturaday
7	M	Green	0x01	0x01	Kusal	Mendis	99	Sea street	Colombo 05	Good shopping experience

4 rows in set (0.00 sec)

```
mysql>
```