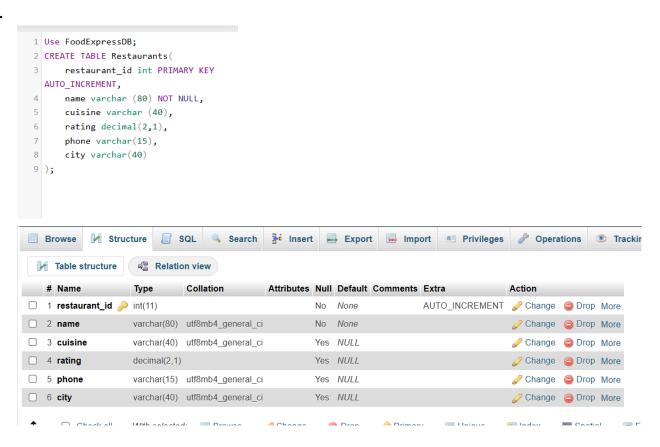
# Internet and Web Technologies – IS1207 (Assignment 13)

## **CREATE DATABASE**

1 CREATE DATABASE FoodExpressDB;

## **CREATE TABLES**

1.



```
CREATE TABLE Customers (
     1
     2
            customer id INT PRIMARY KEY AUTO INCREMENT,
     3
            name VARCHAR(60) NOT NULL,
     4
            email VARCHAR(100) UNIQUE,
     5
            phone VARCHAR(15),
     6
            city VARCHAR(40)
     7
       );
     8
 Table structure
                Relation view
  # Name
                      Collation
                                  Attributes Null Default Comments Extra
               Туре
                                                                     Action
                                                         AUTO_INCREMENT / Change    Orop More
☐ 1 customer_id 
p int(11)
                                         No
                                            None
☐ 2 name
              varchar(60) utf8mb4_general_ci
                                         No None
                                                                      Change Drop More
  3 email 🔎
              varchar(100) utf8mb4_general_ci
                                         Yes NULL
                                                                      Change   Drop More
☐ 4 phone
              varchar(15) utf8mb4_general_ci
                                         Yes NULL
                                                                      Change Drop More
☐ 5 city
              varchar(40) utf8mb4_general_ci
                                         Yes NULL
                                                                      Change   Drop More
     CREATE TABLE Orders (
  1
          order_id INT PRIMARY KEY AUTO_INCREMENT,
  2
          customer id int NOT NULL,
  3
          restaurant_id int NOT NULL,
  4
  5
          order date Date,
  6
          total_amount decimal(7,2),
          status
     ENUM('PLACED','DELIVERED','CANCELLED'),
          FOREIGN KEY (customer id) REFERENCES
     Customers(customer_id),
          FOREIGN KEY (restaurant_id) REFERENCES
     Restaurants(restaurant_id)
```

10);



```
1 INSERT INTO Restaurants (restaurant_id, name,
    cuisine, rating, phone, city) VALUES
2 (1, 'Spice House', 'Sri Lankan', 4.6,
    '0112345678', 'Colombo'),
3 (2, 'Sea Breeze', 'Seafood', 4.2, '0912255777',
    'Galle'),
4 (3, 'Green Bowl', 'Vegetarian', 4.8,
    '0817778899', 'Kandy'),
5 (4, 'Pizza Corner', 'Italian', 3.9,
    '0119988776', 'Colombo'),
6 (5, 'Curry Leaf', 'Indian', 4.5, '0372233445',
    'Kurunegala');
7
```

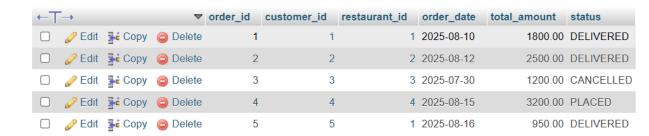
+	-Т	<b>→</b>		$\overline{}$	restaurant_id	name	cuisine	rating	phone	city
		🥜 Edit	<b>≩</b> Copy	Delete	1	Spice House	Sri Lankan	4.6	0112345678	Colombo
			<b>≩</b> Copy	Delete	2	Sea Breeze	Seafood	4.2	0912255777	Galle
		🥜 Edit	<b>≟</b> Copy	Delete	3	Green Bowl	Vegetarian	4.8	0817778899	Kandy
		<i>⊘</i> Edit	<b>≟</b> Copy	Delete	4	Pizza Corner	Italian	3.9	0119988776	Colombo
			<b>≩</b> Сору	Delete	5	Curry Leaf	Indian	4.5	0372233445	Kurunegala

```
INSERT INTO Customers (customer_id, name, email, phone, city) VALUES
(1, 'Nuwan Silva', 'nuwan@silva.lk', '0771231234', 'Colombo'),
(2, 'Ishara Perera', 'ishara@perera.com', '0719988776', 'Galle'),
(3, 'Malini Fernando', 'm.fernando@gmail.com', NULL, 'Kandy'),
(4, 'Tharindu Jayasuriya', 'tharindu@jaya.com', '0754455667', 'Colombo'),
(5, 'Ayesha Ranasinghe', 'ayesha.r@ranasinghe.lk', '0723344556', 'Matara');
```

←Τ	$\rightarrow$		~	customer_id	name	email	phone	city
		<b>≩</b> Copy	Delete	1	Nuwan Silva	nuwan@silva.lk	0771231234	Colombo
		<b>≩</b> Copy	Delete	2	Ishara Perera	ishara@perera.com	0719988776	Galle
		<b>≩</b> Copy	Delete	3	Malini Fernando	m.fernando@gmail.com	NULL	Kandy
	Ø Edit	<b>≩</b> Copy	Delete	4	Tharindu Jayasuriya	tharindu@jaya.com	0754455667	Colombo
	<i> </i>	<b>≩</b> Copy	Delete	5	Ayesha Ranasinghe	ayesha.r@ranasinghe.lk	0723344556	Matara

```
INSERT INTO Orders (order_id, customer_id,
restaurant_id, order_date, total_amount, status)
VALUES

(1, 1, 1, '2025-08-10', 1800.00, 'DELIVERED'),
(2, 2, 2, '2025-08-12', 2500.00, 'DELIVERED'),
(3, 3, 3, '2025-07-30', 1200.00, 'CANCELLED'),
(4, 4, 4, '2025-08-15', 3200.00, 'PLACED'),
(5, 5, 1, '2025-08-16', 950.00, 'DELIVERED');
```



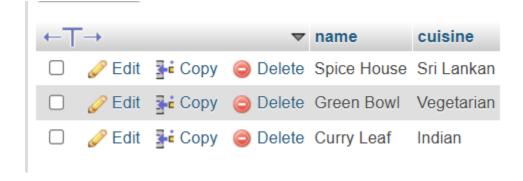
## **SELECT Queries**

1 SELECT \* FROM `Restaurants`;

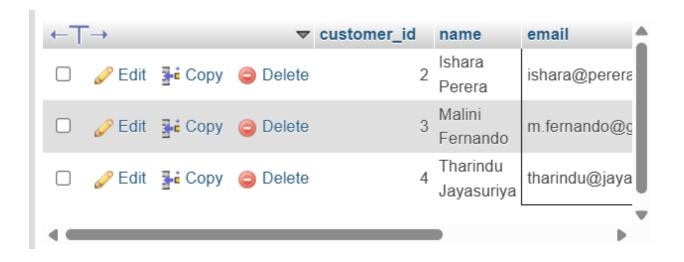


2.

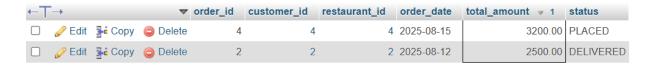
1 SELECT name, cuisine FROM restaurants where rating>=4.5;



```
1 SELECT * FROM Customers WHERE email LIKE '%.com';
```



1 SELECT \* FROM orders WHERE total\_amount>2000
 ORDER BY total\_amount DESC;



5.

1 SELECT \* FROM restaurants WHERE city="COLOMBO"
 ORDER BY rating DESC, name ASC;

~	restaurant_id	name	cuisine	rating 7	phone	city
Delete	1	Spice House	Sri Lankan	4.6	0112345678	Colombo
Delete	4	Pizza Corner	Italian	3.9	0119988776	Colombo

## **UPDATE Queries**

6.

```
1 UPDATE orders SET total_amount=total_amount+
  total_amount*0.05 WHERE order_date < '2025-08-
01';</pre>
```

7.

1 UPDATE customers SET phone='0717770001' WHERE name = "Ishara Perera";

8.

1 UPDATE Restaurants SET rating = 4.0 WHERE name =
 'Pizza Corner';

```
1 row affected. (Query took 0.0005 seconds.)
UPDATE Restaurants SET rating = 4.0 WHERE name = 'Pizza Corner';
[ Edit inline ] [ Edit ] [ Create PHP code ]
```

# **DELETE Queries**

9.

```
1 DELETE FROM orders WHERE order_id=3;

1 row deleted. (Query took 0.0017 seconds.)

DELETE FROM orders WHERE order_id=3;

[Edit inline][Edit][Create Ph.

1 DELETE FROM Customers WHERE phone IS NULL:
```

10.

```
1 DELETE FROM Customers WHERE phone IS NULL;

1 row deleted. (Query took 0.0012 seconds.)

DELETE FROM Customers WHERE phone IS NULL;
```

# **ALTER TABLE**

```
ALTER TABLE Orders ADD COLUMN delivery_fee

DECIMAL(6,2) DEFAULT 0.00;

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

ALTER TABLE Orders ADD COLUMN delivery_fee DECIMAL(6,2) DEFAULT 0.00;

[Edit inline][Edit][Create PHP code]
```

```
12.
```

```
ALTER TABLE Customers MODIFY email VARCHAR(150);
```

```
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006
seconds.)
ALTER TABLE Customers MODIFY email VARCHAR(150);
```

[ Edit inline ] [ Edit ] [ Create PHP code

13.

```
1 ALTER TABLE Restaurants DROP COLUMN phone;
```

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0007 seconds.)

ALTER TABLE Restaurants DROP COLUMN phone;

[ Edit inline ] [ Edit ] [ Create PHP cod

# **Drop Table**

1 DROP TABLE Orders;

-

```
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)
DROP_TABLE_Orders;
[Edit inline] [Edit] [Create PHP code
```

## **JOIN Queries**

14.

```
1 SELECT o.order_id, c.name AS customer_name,
    r.name AS restaurant_name, o.total_amount
2 FROM Orders o
3 JOIN Customers c ON o.customer_id =
    c.customer_id
4 JOIN Restaurants r ON o.restaurant_id =
    r.restaurant_id
5 WHERE o.status = 'DELIVERED';
```

```
1 SELECT c.name, COUNT(o.order_id) AS num_orders
2 FROM Customers c
3 LEFT JOIN Orders o ON c.customer_id =
    o.customer_id
4 GROUP BY c.name;
```

# **Aggregate Queries**

16.

```
1 SELECT c.city, SUM(o.total_amount) AS
  total_revenue
2 FROM Customers c
3 JOIN Orders o ON c.customer_id = o.customer_id
4 WHERE o.status = 'DELIVERED'
5 GROUP BY c.city
6 ORDER BY total_revenue DESC;
```

17.

```
1 SELECT r.city, r.name, r.rating
2 FROM Restaurants r
3 WHERE r.rating = (
4    SELECT MAX(r2.rating)
5    FROM Restaurants r2
6    WHERE r2.city = r.city
7 );
```

# **VIEW & INDEX (Bonus)**

```
1 CREATE VIEW TopColomboRestaurants AS
2 SELECT restaurant_id, name, rating
3 FROM Restaurants
4 WHERE city = 'Colombo' AND rating >= 4.5;
```

