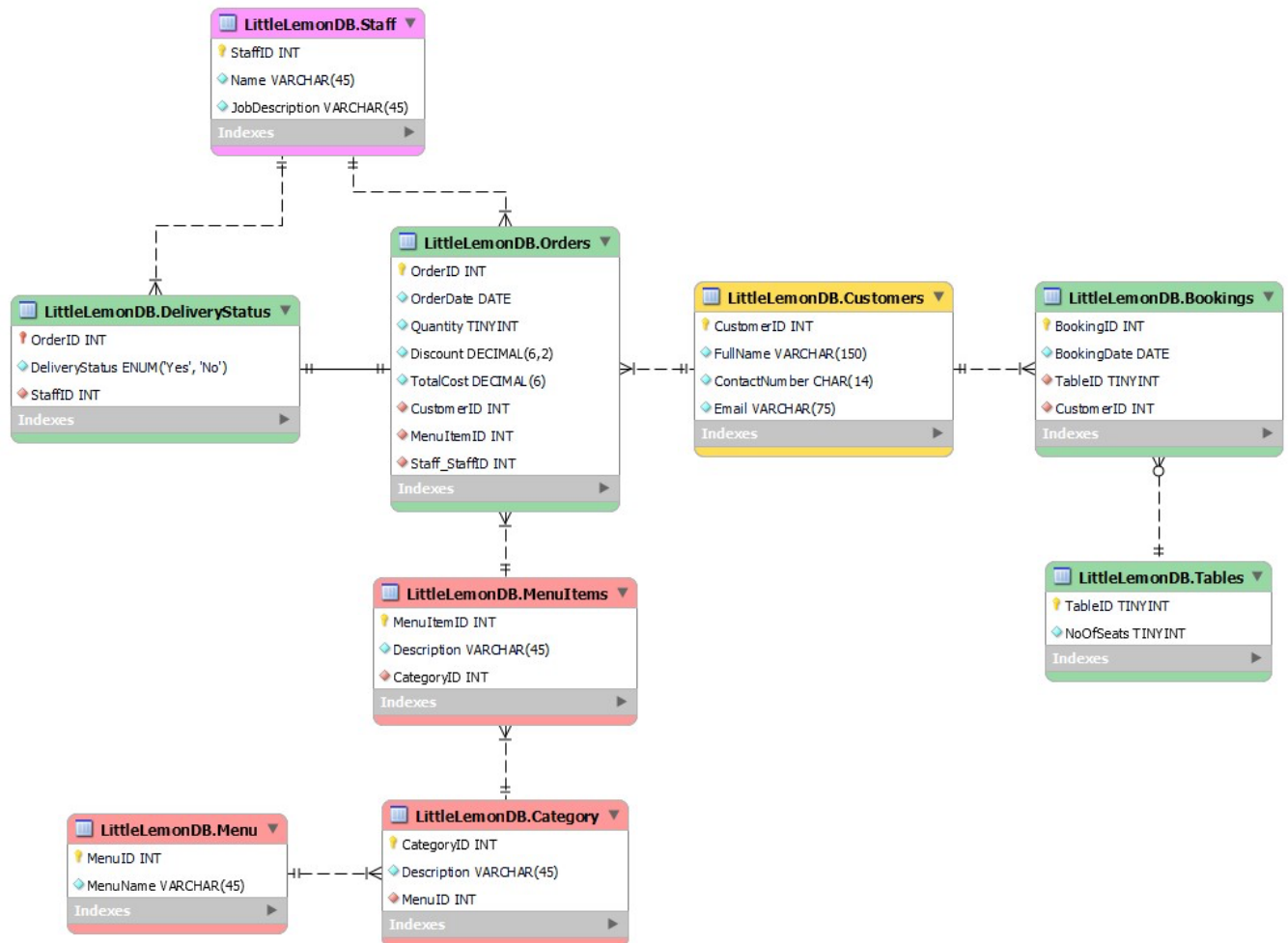


Meta Database Engineer – Capstone


Report



The following ERD shows entities that include all attributes of the spreadsheet. Also, all entities are normalized to the third normal form (NF-3) as detailed in the following:

- 1) Entities don't have any attributes with multi-valued domains. All domains have atomic domains. Also, attributes don't have any repeating groups. Accordingly, entities are in conformance with NF-1 requirements.
- 2) All non-key attributes in each table are not functionally dependent on part of the Primary Key. And because all tables are already in conformance with NF-1, they are accordingly in conformance with NF-2 (partial functional dependency is eliminated)
- 3) All non-key attributes in each table are not functionally dependent on another non-key attribute and dependent on the Primary Key. And because all tables are already in conformance with NF-2, they are accordingly in conformance with NF-3 (transitive functional dependency is eliminated)

Conclusion: the database is in conformance with the requirements of NF-3



Limit to 1000 rows

```
1  -----
2  -- Schema LittleLemonDB
3  -----
4  • CREATE SCHEMA IF NOT EXISTS LittleLemonDB ;
5  • USE LittleLemonDB ;
6
7  -----
8  -- Table `LittleLemonDB`.`Tables`
9  -----
10 • CREATE TABLE IF NOT EXISTS LittleLemonDB.Table (
11     TableID TINYINT NOT NULL,
12     NoOfSeats TINYINT NOT NULL,
13     PRIMARY KEY (TableID));
14
15 -----
16 -- Table LittleLemonDB.Customers
17 -----
18 • CREATE TABLE IF NOT EXISTS LittleLemonDB.Customers (
19     CustomerID INT NOT NULL AUTO_INCREMENT,
20     FullName VARCHAR(150) NOT NULL,
21     ContactNumber CHAR(14) NOT NULL,
22     Email VARCHAR(75) NOT NULL,
23     PRIMARY KEY (CustomerID));
24
25 -----
26 -- Table LittleLemonDB.Bookings
27 -----
28 • CREATE TABLE IF NOT EXISTS LittleLemonDB.Bookings (
29     BookingID INT NOT NULL AUTO_INCREMENT,
30     BookingDate DATE NOT NULL,
31     TableID TINYINT NOT NULL,
32     CustomerID INT NOT NULL,
33     PRIMARY KEY (BookingID),
34     CONSTRAINT fk_Bookings_Tables
35         FOREIGN KEY (TableID)
36         REFERENCES LittleLemonDB.Tables (TableID)
37         ON DELETE NO ACTION
38         ON UPDATE NO ACTION,
39     CONSTRAINT fk_Bookings_Customers1
40         FOREIGN KEY (CustomerID)
41         REFERENCES LittleLemonDB.Customers (CustomerID)
42         ON DELETE NO ACTION
43         ON UPDATE NO ACTION);
44
```

```

45  -- -----
46  -- Table LittleLemonDB.Menu
47  -- -----
48  ● ○ CREATE TABLE IF NOT EXISTS LittleLemonDB.Menu (
49      MenuID INT NOT NULL AUTO_INCREMENT,
50      MenuName VARCHAR(45) NOT NULL,
51      PRIMARY KEY (MenuID));
52
53  -- -----
54  -- Table LittleLemonDB.Category
55  -- -----
56  ● ○ CREATE TABLE IF NOT EXISTS LittleLemonDB.Category (
57      CategoryID INT NOT NULL AUTO_INCREMENT,
58      Description VARCHAR(45) NOT NULL,
59      MenuID INT NOT NULL,
60      PRIMARY KEY (CategoryID),
61      CONSTRAINT fk_Category_Menu1
62          FOREIGN KEY (MenuID)
63          REFERENCES LittleLemonDB.Menu (MenuID)
64          ON DELETE NO ACTION
65          ON UPDATE NO ACTION);
66
67  -- -----
68  -- Table LittleLemonDB.MenuItems
69  -- -----
70  ● ○ CREATE TABLE IF NOT EXISTS LittleLemonDB.MenuItems (
71      MenuItemID INT NOT NULL AUTO_INCREMENT,
72      CategoryID INT NOT NULL,
73      PRIMARY KEY (MenuItemID),
74      CONSTRAINT fk_MenuItems_Category
75          FOREIGN KEY (CategoryID)
76          REFERENCES LittleLemonDB.Category (CategoryID)
77          ON DELETE NO ACTION
78          ON UPDATE NO ACTION);

```

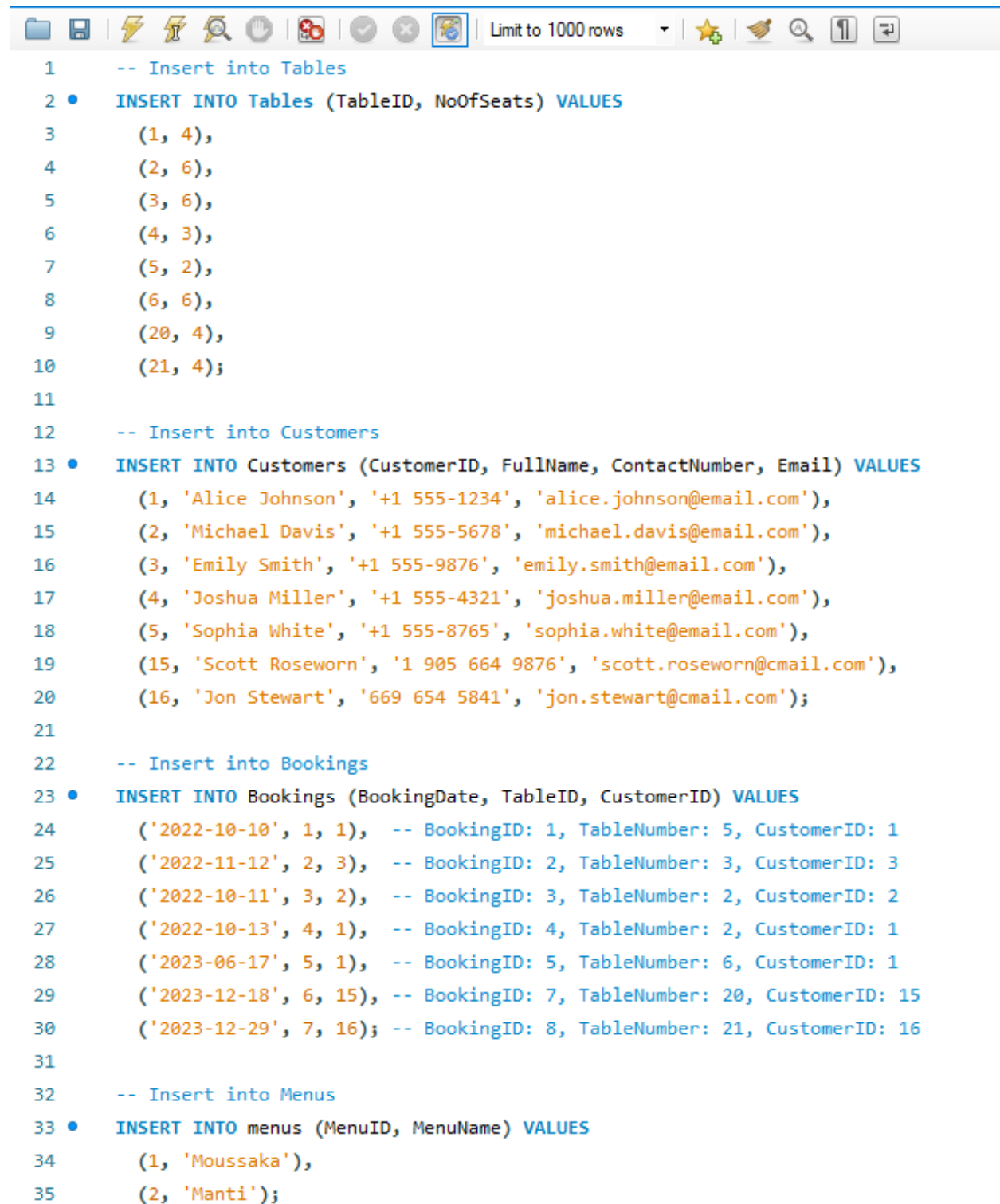
```

79
80  -----
81  -- Table LittleLemonDB.Staff
82  -----
83  ● ○ CREATE TABLE IF NOT EXISTS LittleLemonDB.Staff (
84      StaffID INT NOT NULL AUTO_INCREMENT,
85      Name VARCHAR(45) NOT NULL,
86      JobDescription VARCHAR(45) NOT NULL,
87      PRIMARY KEY (StaffID));
88
89  -----
90  -- Table LittleLemonDB.Orders
91  -----
92  ● ○ CREATE TABLE IF NOT EXISTS LittleLemonDB.Orders (
93      OrderID INT NOT NULL AUTO_INCREMENT,
94      OrderDate DATE NOT NULL,
95      Quantity TINYINT NOT NULL,
96      Discount DECIMAL(6,2) NOT NULL,
97      TotalCost DECIMAL(6) NOT NULL,
98      CustomerID INT NOT NULL,
99      MenuItemID INT NOT NULL,
100     Staff_StaffID INT NOT NULL,
101     PRIMARY KEY (OrderID),
102     CONSTRAINT fk_Orders_Customers
103         FOREIGN KEY (CustomerID)
104         REFERENCES LittleLemonDB.Customers (CustomerID)
105         ON DELETE NO ACTION
106         ON UPDATE NO ACTION,
107     CONSTRAINT fk_Orders_MenuItems
108         FOREIGN KEY (MenuItemID)
109         REFERENCES LittleLemonDB.MenuItems (MenuItemID)
110         ON DELETE NO ACTION
111         ON UPDATE NO ACTION,
112     CONSTRAINT fk_Orders_Staff
113         FOREIGN KEY (Staff_StaffID)
114         REFERENCES LittleLemonDB.Staff (StaffID)
115         ON DELETE NO ACTION
116         ON UPDATE NO ACTION);
117

```

```
118  -- -----
119  -- Table LittleLemonDB.DeliveryStatus
120  -- -----
121  ● ○ CREATE TABLE IF NOT EXISTS LittleLemonDB.DeliveryStatus (
122      OrderID INT NOT NULL,
123      DeliveryStatus ENUM('Yes', 'No') NOT NULL,
124      StaffID INT NOT NULL,
125      PRIMARY KEY (OrderID),
126      CONSTRAINT fk_DeliveryStatus_Orders
127          FOREIGN KEY (OrderID)
128          REFERENCES LittleLemonDB.Orders (OrderID)
129          ON DELETE NO ACTION
130          ON UPDATE NO ACTION,
131      CONSTRAINT fk_DeliveryStatus_Staff
132          FOREIGN KEY (StaffID)
133          REFERENCES LittleLemonDB.Staff (StaffID)
134          ON DELETE NO ACTION
135          ON UPDATE NO ACTION);
136
```

Data Insertion



```
1  -- Insert into Tables
2  • INSERT INTO Tables (TableID, NoOfSeats) VALUES
3      (1, 4),
4      (2, 6),
5      (3, 6),
6      (4, 3),
7      (5, 2),
8      (6, 6),
9      (20, 4),
10     (21, 4);
11
12  -- Insert into Customers
13  • INSERT INTO Customers (CustomerID, FullName, ContactNumber, Email) VALUES
14      (1, 'Alice Johnson', '+1 555-1234', 'alice.johnson@email.com'),
15      (2, 'Michael Davis', '+1 555-5678', 'michael.davis@email.com'),
16      (3, 'Emily Smith', '+1 555-9876', 'emily.smith@email.com'),
17      (4, 'Joshua Miller', '+1 555-4321', 'joshua.miller@email.com'),
18      (5, 'Sophia White', '+1 555-8765', 'sophia.white@email.com'),
19      (15, 'Scott Roseworn', '1 905 664 9876', 'scott.roseworn@cmail.com'),
20      (16, 'Jon Stewart', '669 654 5841', 'jon.stewart@cmail.com');
21
22  -- Insert into Bookings
23  • INSERT INTO Bookings (BookingDate, TableID, CustomerID) VALUES
24      ('2022-10-10', 1, 1),  -- BookingID: 1, TableNumber: 5, CustomerID: 1
25      ('2022-11-12', 2, 3),  -- BookingID: 2, TableNumber: 3, CustomerID: 3
26      ('2022-10-11', 3, 2),  -- BookingID: 3, TableNumber: 2, CustomerID: 2
27      ('2022-10-13', 4, 1),  -- BookingID: 4, TableNumber: 2, CustomerID: 1
28      ('2023-06-17', 5, 1),  -- BookingID: 5, TableNumber: 6, CustomerID: 1
29      ('2023-12-18', 6, 15), -- BookingID: 7, TableNumber: 20, CustomerID: 15
30      ('2023-12-29', 7, 16); -- BookingID: 8, TableNumber: 21, CustomerID: 16
31
32  -- Insert into Menus
33  • INSERT INTO menus (MenuID, MenuName) VALUES
34      (1, 'Moussaka'),
35      (2, 'Manti');
```

```

36
37 -- Insert into Categories
38 • INSERT INTO Categories (Description, MenuID) VALUES
39     ('Appetizers_1', 1),    -- CategoryID: 1, MenuID: 1
40     ('Main Course_1', 2),   -- CategoryID: 2, MenuID: 2
41     ('Desserts_1', 1),      -- CategoryID: 3, MenuID: 1
42     ('Drinks_1', 1),        -- CategoryID: 4, MenuID: 1
43     ('Appetizers_2', 2),    -- CategoryID: 5, MenuID: 2
44     ('Main Course_2', 2),   -- CategoryID: 6, MenuID: 2
45     ('Desserts_2', 2),      -- CategoryID: 7, MenuID: 2
46     ('Drinks_2', 2);       -- CategoryID: 8, MenuID: 2
47
48 -- Insert into MenuItems
49 • INSERT INTO MenuItems (MenuItemID, Description, CategoryID) VALUES
50     (1, 'Green Salad Skewers', 1),
51     (2, 'Hummus with Pita Bread', 1),
52     (3, 'Spanakopita (Spinach Pie)', 1),
53     (4, 'Grilled Lemon Herb Chicken', 2),
54     (5, 'Seafood Paella', 2),
55     (6, 'Eggplant Moussaka', 2),
56     (7, 'Baklava', 3),
57     (8, 'Tiramisu', 3),
58     (9, 'Orange Blossom Panna Cotta', 3),
59     (10, 'Mint Lemonade', 4),
60     (11, 'Pomegranate Mojito', 4),
61     (12, 'Tzatziki Yogurt Smoothie', 4);
62
63 -- Insert into Orders
64 • INSERT INTO Orders (OrderID, OrderDate, Quantity, Discount, TotalCost, CustomerID, MenuItemID, Staff_StaffID) VALUES
65     (1, '2023-08-19', 4, 0, 150, 5, 3, 3),
66     (2, '2023-10-14', 2, 0, 255, 3, 1, 1),
67     (3, '2023-06-18', 5, 0, 250, 2, 3, 4),
68     (4, '2023-06-19', 3, 0, 200, 4, 6, 4),
69     (5, '2023-11-20', 2, 0, 260, 1, 2, 2);
70
71 -- Insert into Staff
72 • INSERT INTO Staff (StaffID, Name, JobDescription) VALUES
73     (1, 'John Smith', 'Manager'),
74     (2, 'Joan', 'Staff'),
75     (3, 'Dan', 'Staff'),
76     (4, 'Ron', 'Shipper');
77
78 -- Insert into DeliveryStatus
79 • INSERT INTO DeliveryStatus (OrderID, DeliveryStatus, StaffID) VALUES
80     (3, 'Yes', 4),
81     (4, 'Yes', 4);
82


```

Sales Report (Week 2)

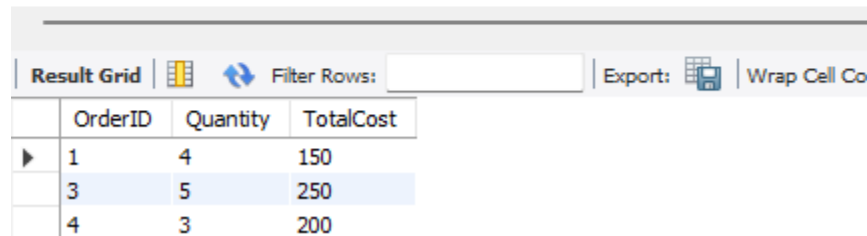
Task #1

```
3      -- Task #1
4
5  •   CREATE OR REPLACE VIEW OrdersView AS
6      SELECT OrderID, Quantity, TotalCost
7      FROM Orders
8      WHERE Quantity > 2;
-
```

Output:



```
1  •   SELECT * FROM littlelemondb.ordersview;
```



	OrderID	Quantity	TotalCost
▶	1	4	150
	3	5	250
	4	3	200

Task #2

```
10
11      -- Task #2
12
13  •   CREATE OR REPLACE VIEW orders_customers AS
14      SELECT c.CustomerID, c.FullName, o.Quantity, o.OrderID, o.TotalCost As Cost, o.MenuItemID
15      FROM Customers c JOIN Orders o ON c.CustomerID = o.CustomerID;
16
17  •   CREATE OR REPLACE VIEW menu_menuitems AS
18      SELECT i.MenuItemID, m.MenuName, i.Description AS CourseName
19      FROM Category c
20           JOIN MenuItems i ON c.CategoryID = i.CategoryID
21           JOIN Menu m ON c.MenuID = m.MenuID;
22
23  •   SELECT o.CustomerID, o.FullName, o.OrderID, o.Cost, m.MenuName, m.CourseName
24      FROM orders_customers o JOIN menu_menuitems m ON o.MenuItemID = m.MenuItemID
25      WHERE o.Cost > 150 ;
```

Output:

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

IA

	CustomerID	FullName	OrderID	Cost	MenuName	CourseName
▶	3	Emily Smith	2	255	Moussaka	Green Salad Skewers
	2	Michael Davis	3	250	Moussaka	Spanakopita (Spinach Pie)
	4	Joshua Miller	4	200	Manti	Eggplant Moussaka
	1	Alice Johnson	5	260	Moussaka	Hummus with Pita Bread

Task #3

```

27      -- Task #3
28      -- Using subquery (as required)
29  •    SELECT MenuName
30      FROM menu_menuitems
31  WHERE MenuItemID IN (
32                      SELECT MenuItemID
33                      FROM orders_customers
34                      WHERE Quantity > 2);
35
36      -- Using JOIN (verification)
37  •    SELECT MenuName
38      FROM orders_customers o JOIN menu_menuitems i ON o.MenuItemID = i.MenuItemID
39  WHERE o.Quantity > 2;
40

```

Output:

	MenuName
▶	Moussaka
	Manti

Week-2 Query Optimization

Task #1

```
1 • CREATE DEFINER=`root`@`localhost` PROCEDURE `GetMaxQuantity`()
2 BEGIN
3     SELECT MAX(Quantity) AS 'Max Quantity in Order'
4     FROM Orders;
5 END
```

```
1 • call littlelemondb.GetMaxQuantity();
2
```

Output:

	Max Quantity in Order
▶	5

Task #2

```
1 • CREATE DEFINER=`root`@`localhost` PROCEDURE `GetOrderDetail`(IN id INT)
2 BEGIN
3     SELECT OrderID, Quantity, TotalCost AS Cost
4     FROM Orders
5     WHERE OrderID = id;
6 END
```

Call stored procedure littlelemondb.GetOrderDetail

Enter values for parameters of your procedure and click <Execute> to create an SQL editor and run the call:

id [IN] INT

```
1 • call littlelemondb.GetOrderDetail(1);
2
```

Output:

	OrderID	Quantity	Cost
►	1	4	150

Task #3

```
1 • CREATE DEFINER=`root`@`localhost` PROCEDURE `CancelOrder`(IN order_id INT)
2 BEGIN
3     DELETE FROM Orders
4     WHERE OrderID = order_id;
5     SELECT CONCAT("Order " , order_id , " is cancelled") AS "Confirmation";
6 END
```

Call stored procedure littlelemondb.CancelOrder

Enter values for parameters of your procedure and click <Execute> to create an SQL editor and run the call:

order_id 5 [IN] INT

Execute Cancel

```
1 • call littlelemondb.CancelOrder(5);
2
```


	Confirmation
►	Order 5 is cancelled

Table Booking System (WK-2):



Booking based on user input

Task #1

```
3      -- Task #1
4
5  •   INSERT INTO Bookings (BookingID, BookingDate, TableNumber, CustomerID)
6      VALUES
7          (1, '2022-10-10', 5, 1),
8          (2, '2022-11-12', 3, 3),
9          (3, '2022-10-11', 2, 2),
10         (4, '2022-10-13', 2, 1);
```

 Limit to 1000 rows

```
1 •   SELECT * FROM littlelemondb.bookings;
```

Result Grid |  Filter Rows: | Edit: 

	BookingID	BookingDate	TableNumber	CustomerID
▶	1	2022-10-10	5	1
	2	2022-11-12	3	3
	3	2022-10-11	2	2
	4	2022-10-13	2	1

Task #2

```
1  •   CREATE DEFINER='root'@'localhost' PROCEDURE `CheckBooking`(  
2      IN booking_date DATE,  
3      IN table_number INT  
4  )  
5  BEGIN  
6      DECLARE bookedTable INT DEFAULT 0;  
7      SELECT COUNT(bookedTable)  
8          INTO bookedTable  
9          FROM Bookings WHERE BookingDate = booking_date and TableNumber = table_number;  
10     IF bookedTable > 0 THEN  
11         SELECT concat("Table ", table_number, " is already booked") AS "Booking status";  
12     ELSE  
13         SELECT concat("Table ", table_number, " has not been booked yet") AS "Booking status";  
14     END IF;  
15 END
```

 Limit to 1000 rows

```
1 •   call littlelemondb.CheckBooking('2022-11-12', 3);
```

Call stored procedure littlelemondb.CheckBooking

Enter values for parameters of your procedure and click <Execute> to create an SQL editor and run the call:

booking_date [IN] DATE

table_number [IN] INT


	Booking status
▶	Table 3 is already booked

Task #3

```

1 • CREATE DEFINER='root'@'localhost' PROCEDURE `AddValidBooking`(IN bookingDate DATE, IN tableNumber INT)
2 BEGIN
3     DECLARE tableCount INT;
4
5     -- Start a transaction
6     START TRANSACTION;
7
8     -- Check if the table is already booked on the given date
9     SELECT COUNT(*) INTO tableCount
10    FROM Bookings
11   WHERE TableNumber = tableNumber AND BookingDate = bookingDate;
12
13     IF tableCount > 0 THEN
14         -- Table is already booked, rollback the transaction
15         ROLLBACK;
16         SELECT CONCAT('Table ', tableNumber, ' is already booked - booking cancelled') AS 'Booking status';
17     ELSE
18         -- Table is available, proceed with the booking
19         INSERT INTO Bookings (BookingDate, TableNumber)
20        VALUES (bookingDate, tableNumber);
21
22         -- Commit the transaction
23         COMMIT;
24         SELECT 'Booking successful.' AS Message;
25     END IF;
26 END

```

 Call stored procedure littlelemondb.AddValidBooking

Enter values for parameters of your procedure and click <Execute> to create an SQL editor and run the call:

bookingDate

2022-12-17

[IN] DATE











tableNumber

6


[IN] INT

Execute

Cancel



Limit to 1000 rows



1 •

call littlelemondb.AddValidBooking('2022-12-17', 6);

Booking status

▶ Table 6 is already booked - booking cancelled

Create SQL queries to add and update bookings

Task #1

```
1 • CREATE DEFINER=`root`@`localhost` PROCEDURE `AddBooking` (  
2     IN booking_date DATE,  
3     IN no_of_seats TINYINT,  
4     IN full_name VARCHAR(150),  
5     IN contact_number CHAR(14),  
6     IN email_ VARCHAR(75)  
7 )  
8 BEGIN  
9     DECLARE new_table_id INT;  
10    DECLARE new_customer_id INT;  
11    DECLARE new_booking_id INT;  
12  
13    -- Insert into tables and retrieve the auto-generated ID  
14    INSERT INTO tables (NoOfSeats) VALUES (no_of_seats);  
15    SET new_table_id = last_insert_id();  
16  
17    -- Insert into customers and retrieve the auto-generated ID  
18    INSERT INTO customers (FullName, ContactNumber, Email)  
19    VALUES (full_name, contact_number, email_);  
20    SET new_customer_id = last_insert_id();  
21  
22    -- Insert into bookings and retrieve the auto-generated ID  
23    INSERT INTO bookings (BookingDate, TableID, CustomerID)  
24    VALUES (booking_date, new_table_id, new_customer_id);  
25  
26    SET new_booking_id = LAST_INSERT_ID();  
27  
28    SELECT 'New booking added with BookingID: ' AS 'Confirmation', new_booking_id;  
29 END
```

Note that BookingID, and CustomerID are auto-generated

Call stored procedure littlelemondb.AddBooking

Enter values for parameters of your procedure and click <Execute> to create an SQL editor and run the call:

booking_date	2022-12-30	[IN]	DATE
no_of_seats	4	[IN]	TINYINT
full_name	Jon Stewart	[IN]	VARCHAR(150)
contact_number	905-667-2594	[IN]	CHAR(14)
email_	stewart@cmail.com	[IN]	VARCHAR(75)

Execute Cancel

Limit to 1000 rows	1 • call littlelemondb.AddBooking('2022-12-30', 4, 'Jon Stewart', '905-667-2594', 'jon.stewart@cmail.com');
Confirmation	new_booking_id
New booking added with BookingID:	9

Task #2

```

1 • CREATE DEFINER=`root`@`localhost` PROCEDURE `UpdateBooking`(IN booking_id INT, IN booking_date DATE)
2 BEGIN
3     UPDATE Bookings
4     SET BookingDate = booking_date
5     WHERE BookingID = booking_id;
6     SELECT CONCAT("Booking ", booking_id, " updated") AS "Confirmation";
7 END

```

Call stored procedure littlelemondb.UpdateBooking

Enter values for parameters of your procedure and click <Execute> to create an SQL editor and run the call:

booking_id	9	[IN]	INT
booking_date	2022-12-17	[IN]	DATE

Execute Cancel

Limit to 1000 rows

1 • call littlelemondb.UpdateBooking(9, '2022-12-17');


	Confirmation
▶	Booking 9 updated

Task 3

```

1 • CREATE DEFINER=`root`@`localhost` PROCEDURE `CancelBooking`(IN booking_id INT)
2 BEGIN
3     -- DELETE FROM Bookings
4     -- WHERE BookingID = booking_id;
5     SELECT CONCAT("Booking " , booking_id , " cancelled") AS "Confirmation";
6 END

```

 Call stored procedure littlelemondb.CancelBooking

Enter values for parameters of your procedure and click <Execute> to create an SQL editor and run the call:

booking_id [IN] INT

Execute Cancel

```

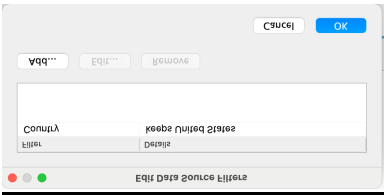
1 • call littlelemondb.CancelBooking(9);

```

	Confirmation
▶	Booking 9 cancelled

Data Visualization

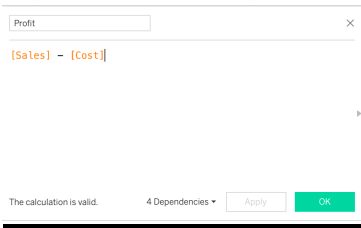
Task #1



Task #2

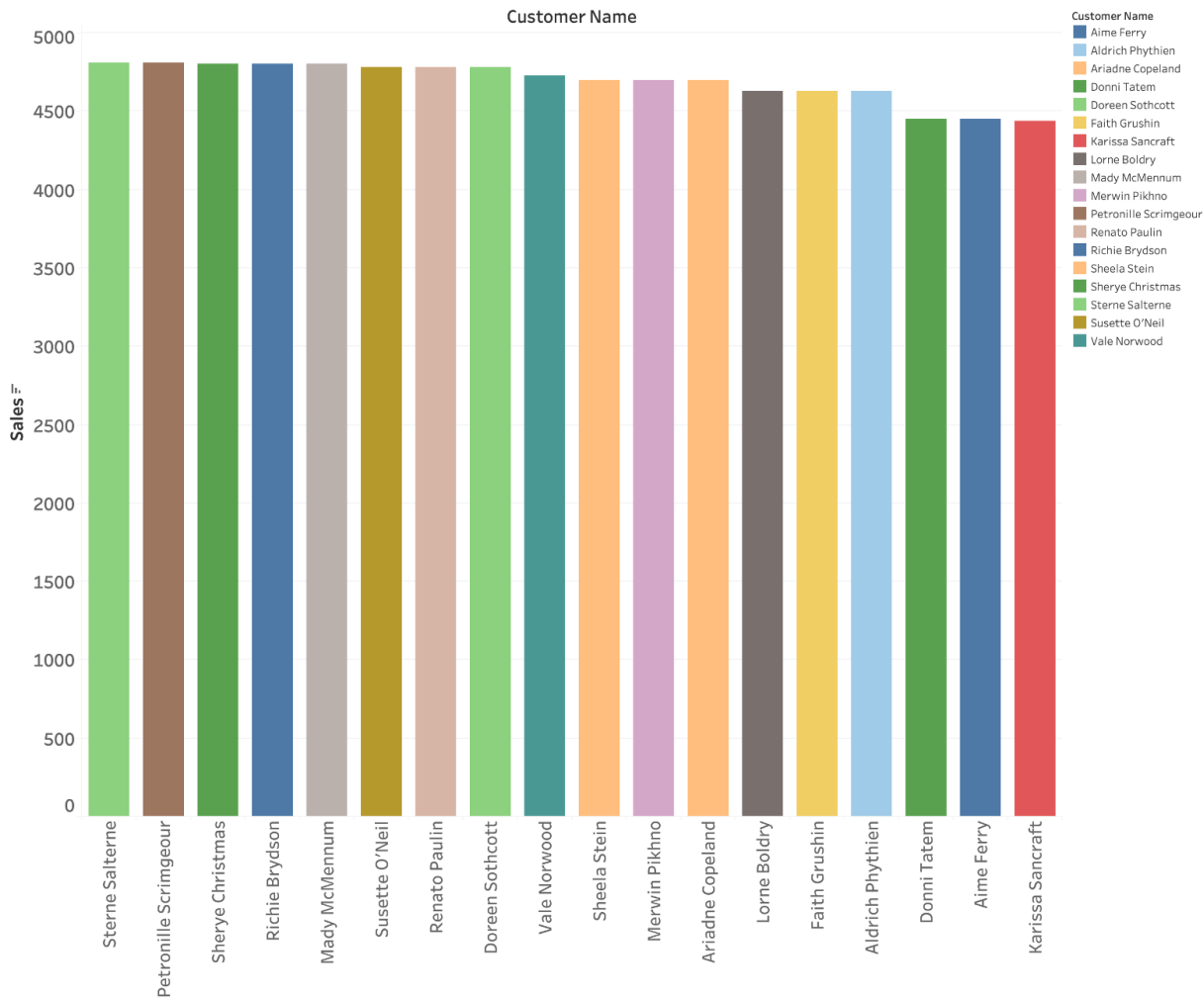
Calculation	Calculation
First Name	Last Name
Sterne	Salterne
Mady	McMennum
Merwin	Pikhno
Aime	Ferry
Merlina	Lermit
Schuyler	Walewski
Ariadne	Copeland
Tamma	Clink
Susette	O'Neil
Aldrich	Phythien
Dusty	Yedall
Roanna	Safont
Richie	Brydson
Renato	Paulin

Task #3

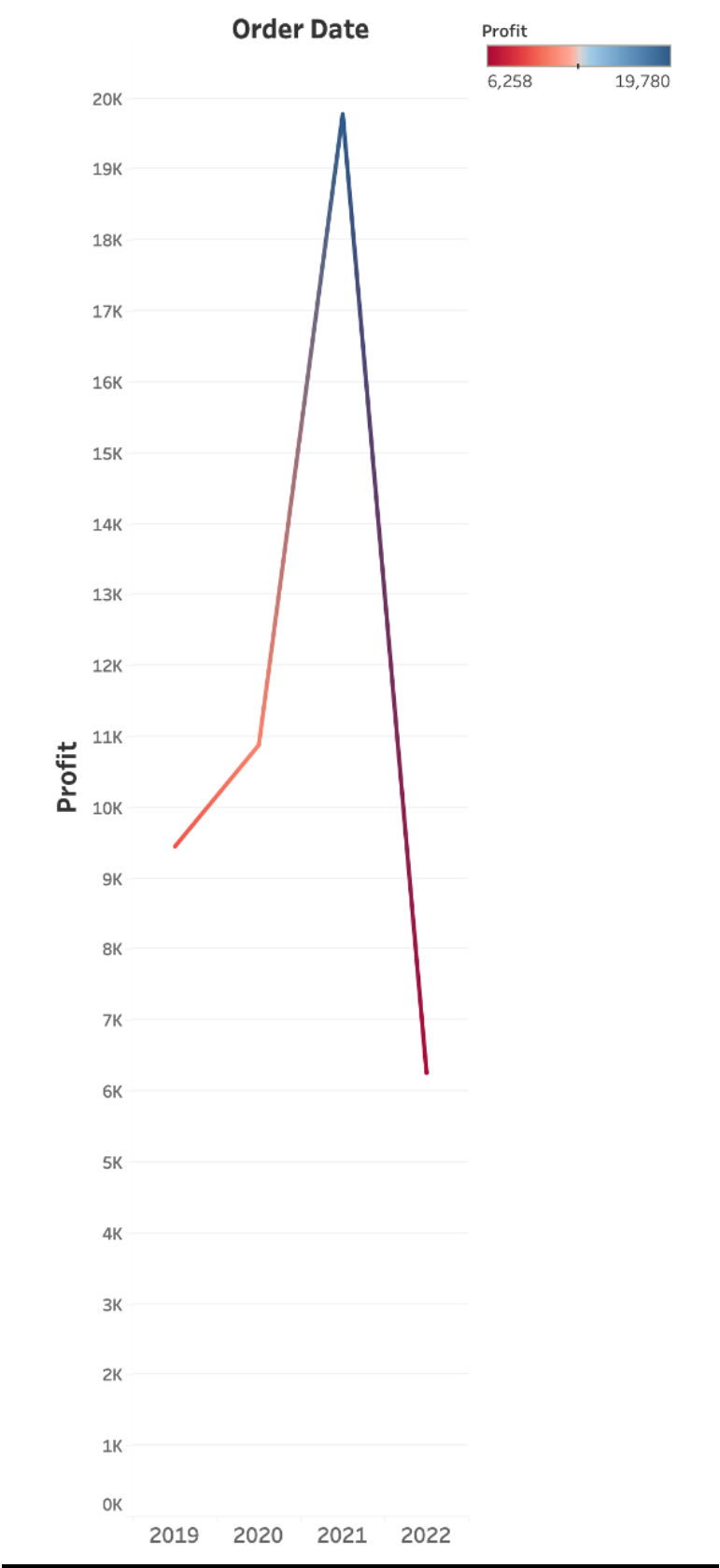


Orders	Calculation
Sales	Profit
285.000	95.000
216.135	72.045
187.500	62.500
137.760	45.920
352.500	117.500
179.700	59.900
187.500	62.500
352.500	117.500
480.000	160.000
78.120	26.040
352.500	117.500
315.000	105.000
216.135	72.045
199.755	66.585
480.000	160.000

Customers sales



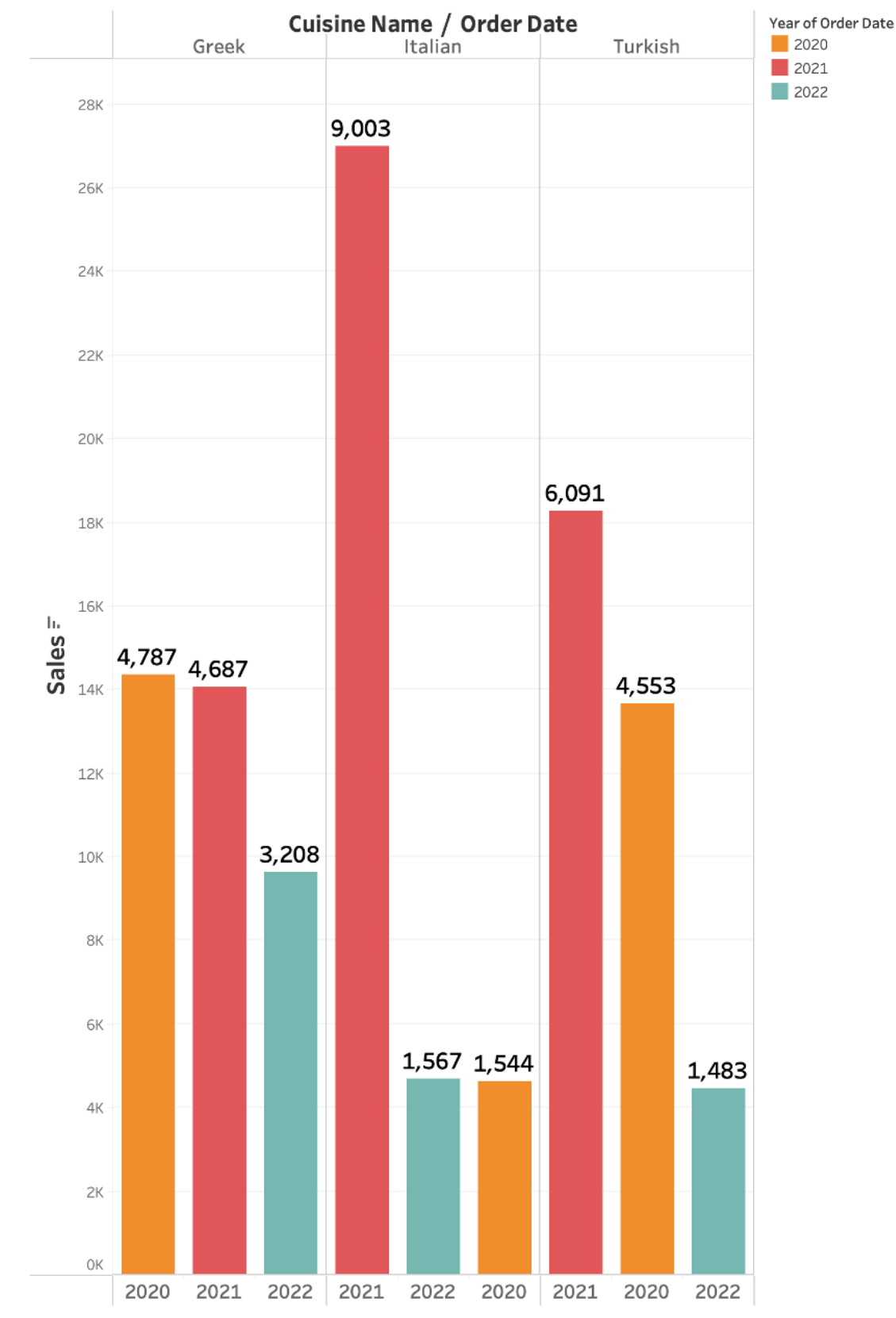
Profit chart



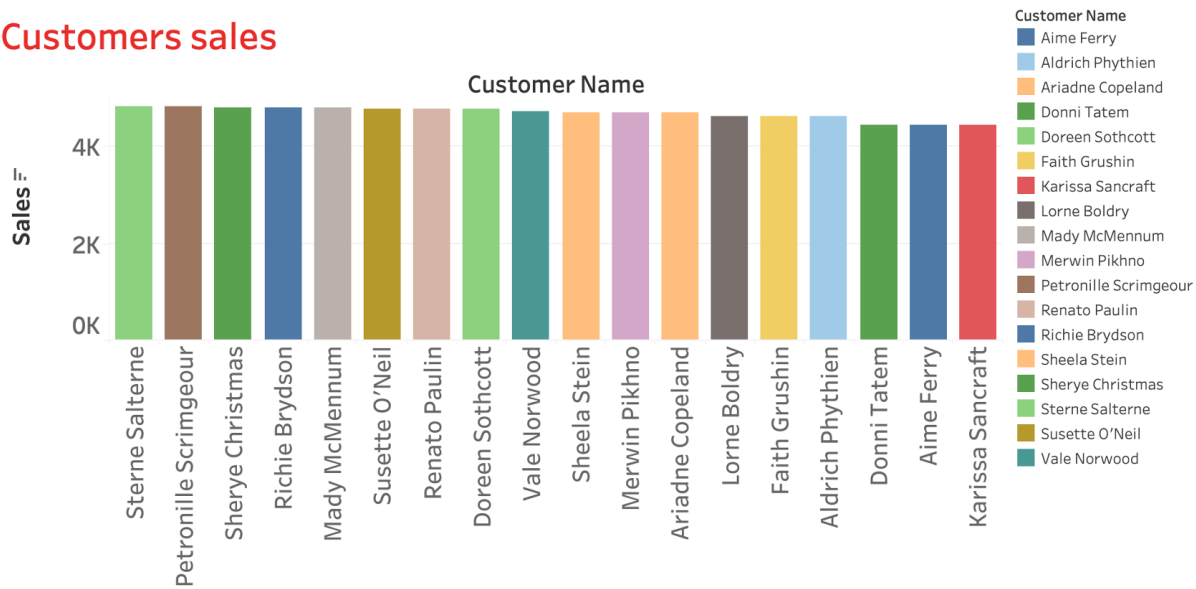
Sale Bubble Chart



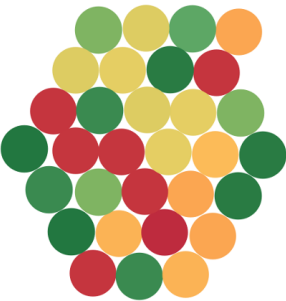
Cuisine Sales & Profit



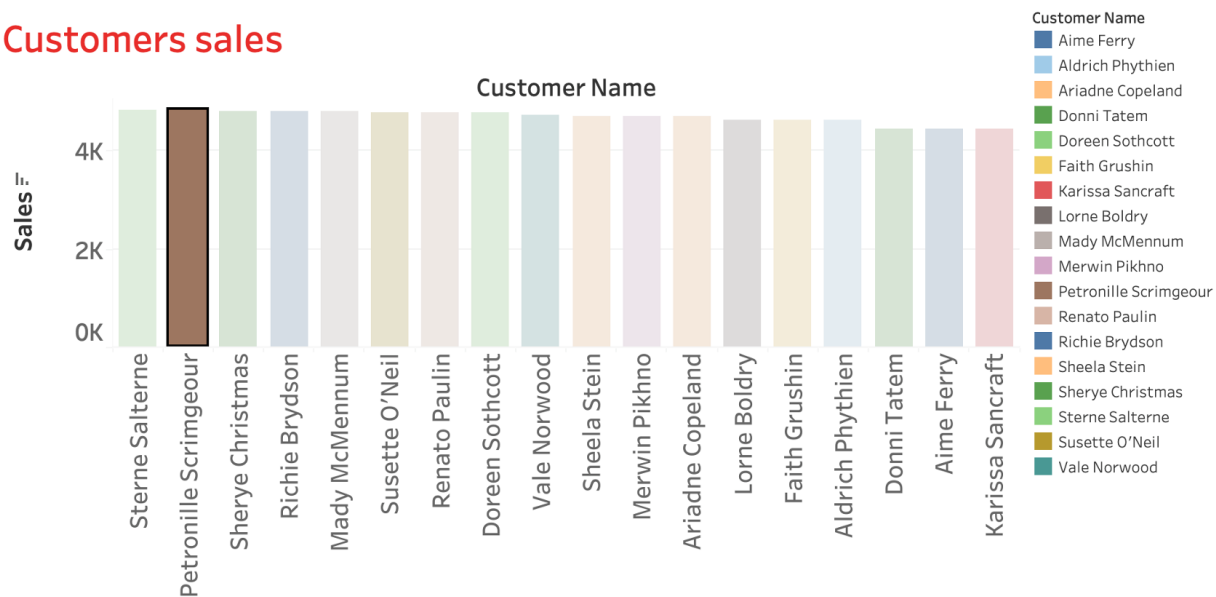
Customers sales



Sale Bubble Chart



Customers sales



Sales pie chart



Database Client

```
1 %pip install mysql-connector-python
✓ 1.1s Python
```

```
1 !pip show mysql-connector-python
✓ 0.8s Python
```

```
1 import mysql.connector as connector
✓ 0.1s Python
```

```
1 connection = connector.connect(user='root', password='root@123', port=3306, host='localhost', database= 'littlelemondb')
✓ 0.0s Python
```

```
1 # Create a cursor object to execute SQL statements
2 cursor = connection.cursor()
3
✓ 0.0s Python
```



```

1 # Define SQL statements (embedded directly in Python code)
2 show_table_query = "SHOW tables"
3 cursor.execute(show_table_query)

```

✓ 0.0s

Python

```

1 results = cursor.fetchall()
2 print(results)

```

✓ 0.0s

Python

```

[('Bookings',), ('Category',), ('Customers',), ('DeliveryStatus',), ('Menu',), ('menu_menuitems',), ('MenuItems',), ('Orders',), ('orde

```

```

1 sql_query = """
2
3 SELECT b.BookingID, b.TableID, c.FullName, c.ContactNumber, c.Email, o.TotalCost
4 FROM Customers c
5      |         |         |         |         | JOIN Orders o ON c.CustomerID = o.CustomerID
6      |         |         |         |         | JOIN Bookings b ON c.CustomerID = b.CustomerID
7 WHERE o.TotalCost > 60
8
9 """
10 cursor.execute(sql_query)

```

✓ 0.0s

Python

```

1 results = cursor.fetchall()
2

```

✓ 0.0s

Python

```

1 print(cursor.column_names)
2 print(results)

```

✓ 0.0s

Python

```

('BookingID', 'TableID', 'FullName', 'ContactNumber', 'Email', 'TotalCost')
[(1, 5, 'Alice Johnson', '+1 555-1234', 'alice.johnson@email.com', Decimal('260')), (2, 3, 'Emily Smith', '+1 555-9876', 'emily.smith@

```