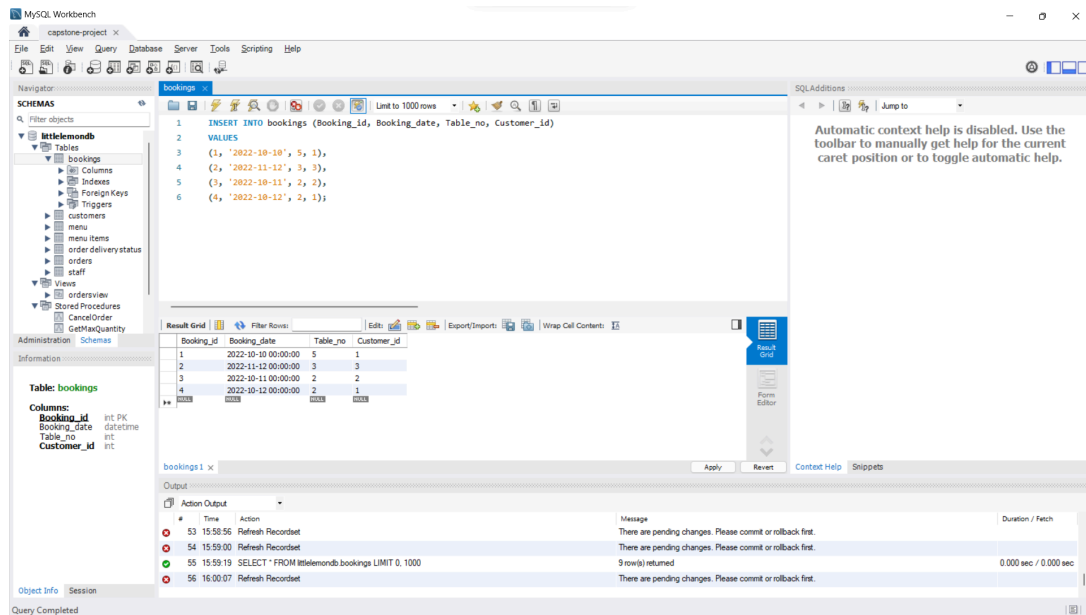


## CREATE SQL QUERIES TO CHECK AVAILABLE BOOKINGS BASED ON USER INPUT

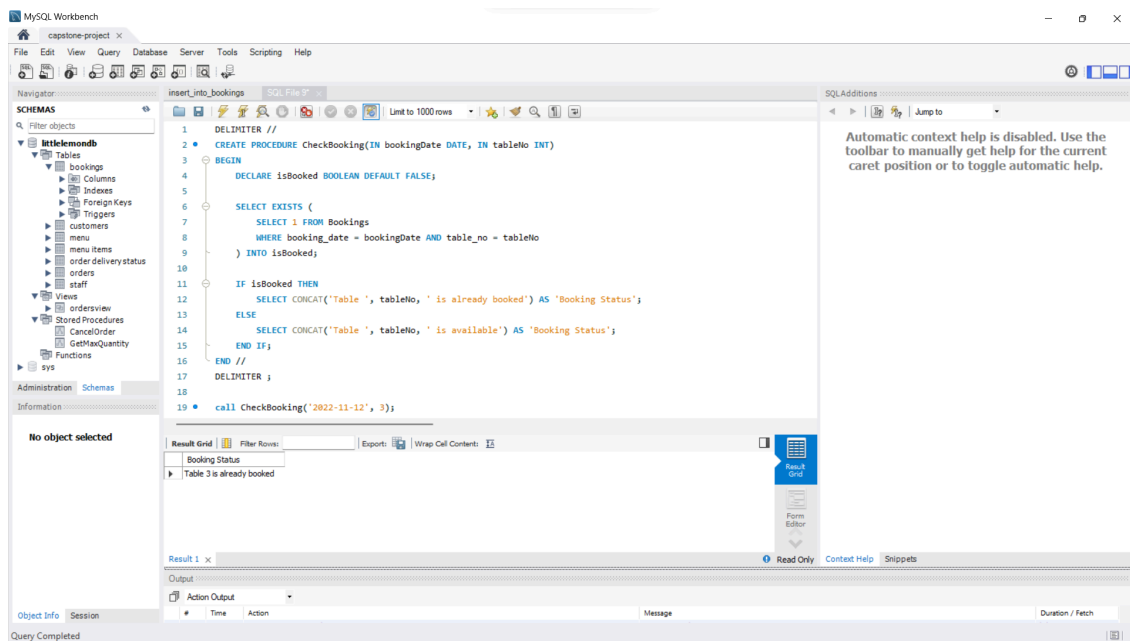
### Task 1:

Your first task is to replicate the list of records in the following table by adding them to the Little Lemon booking table.



### Task 2:

Little Lemon needs you to create a stored procedure called CheckBooking to check whether a table in the restaurant is already booked.



### Task 3:

You need to create a new procedure called AddValidBooking. This procedure must use a transaction statement to perform a rollback if a customer reserves a table that's already booked under another name.

The screenshot shows the MySQL Workbench interface with the 'capstone-project' database selected. The 'Schemas' pane on the left shows the 'bookings' table structure. The main editor displays the SQL code for the 'checkBooking\_procedure' and the 'insert\_into\_bookings' procedure. The 'insert\_into\_bookings' procedure is a stored procedure that checks if a table is already booked for a given date and time. It uses a transaction to ensure that if a table is already booked, the booking is rolled back and the user is notified. If the table is available, it inserts the booking and notifies the user.

```
4 DECLARE isBooked BOOLEAN DEFAULT FALSE;
5 DECLARE bookingId INT;
6
7 START TRANSACTION;
8
9 SELECT EXISTS (
10   WHERE booking_date = BookingDate AND Table_no = TableNo
11 ) INTO isBooked;
12
13 IF isBooked THEN
14   ROLLBACK;
15   SELECT CONCAT('Table ', TableNo, ' is already booked - booking cancelled') AS 'Booking Status';
16 ELSE
17   INSERT INTO Bookings (Booking_date, Table_no)
18   VALUES (BookingDate, TableNo);
19   COMMIT;
20   SELECT CONCAT('Table ', TableNo, ' is available - booking confirmed') AS 'Booking Status';
21 END IF;
22 END //
23 DELIMITER ;
24
25 • call AddValidBooking('2022-12-17', 9);
```

The 'Result Grid' shows the output of the query, displaying the 'Booking Status' as 'Table 6 is available - booking confirmed'.

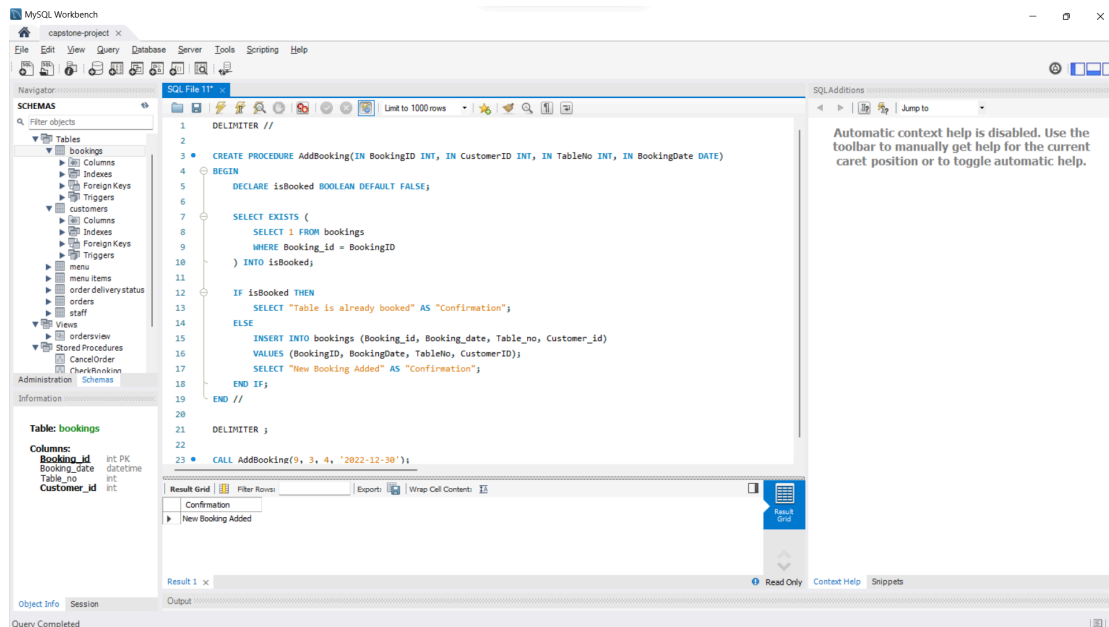
Table: bookings

Columns:	Bookings_id	Booking_date	Table_no	Customer_id
	int PK	datetime	int	int

# CREATE SQL QUERIES TO ADD AND UPDATE BOOKINGS

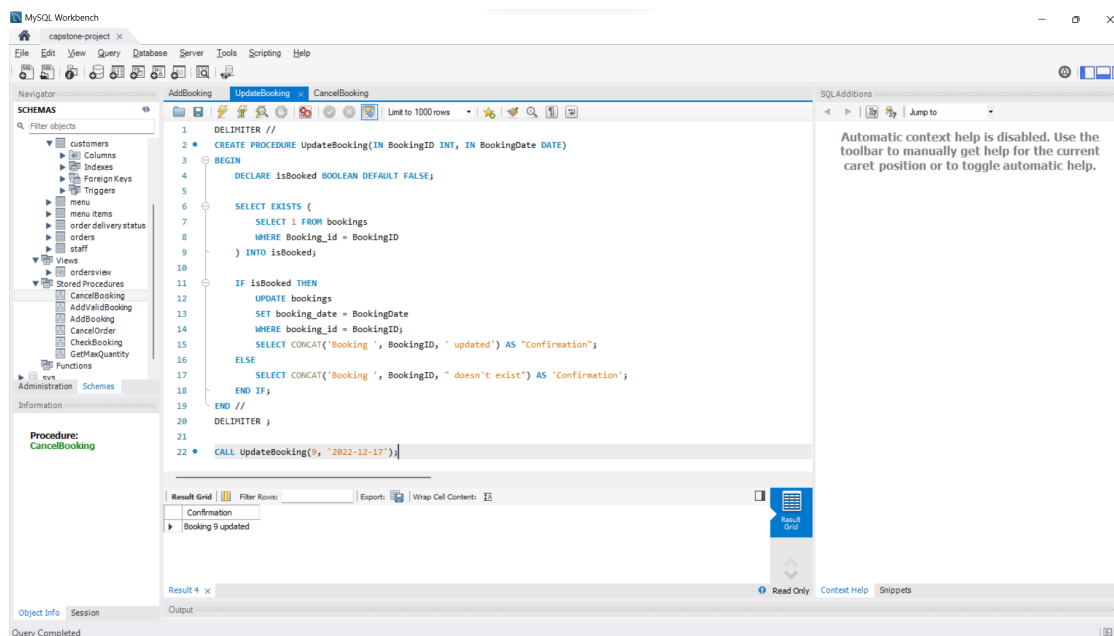
## Task 1:

In this first task you need to create a new procedure called AddBooking to add a new table booking record.



## Task 2:

Little Lemon needs you to create a new procedure called UpdateBooking that they can use to update existing bookings in the booking table.



### Task 3:

Little Lemon needs you to create a new procedure called CancelBooking that they can use to cancel or remove a booking.

The screenshot displays the MySQL Workbench interface with a project named 'capstone-project'. The left sidebar shows a 'SCHEMAS' tree with various database objects. The main editor window is titled 'CancelBooking' and contains the following SQL code:

```
1 DELIMITER //
2
3 CREATE PROCEDURE CancelBooking(IN BookingID INT)
4 BEGIN
5     DECLARE isBooked BOOLEAN DEFAULT FALSE;
6
7     SELECT EXISTS (
8         SELECT 1 FROM bookings
9         WHERE Booking_id = BookingID
10     ) INTO isBooked;
11
12     IF isBooked THEN
13         DELETE FROM bookings
14         WHERE Booking_id = BookingID;
15         SELECT CONCAT('Booking ', BookingID, ' cancelled') AS 'Confirmation';
16     ELSE
17         SELECT CONCAT('Booking ', BookingID, ' doesn't exist') AS 'Confirmation';
18     END IF;
19 END //
20
21 DELIMITER ;
22
23 CALL CancelBooking(9);
```

Below the code editor, the 'Result Grid' shows the output of the procedure call:

Confirmation
Booking 9 cancelled

The bottom status bar indicates 'Query Completed'. On the right side, a 'SQLAdditions' panel displays a message: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.'