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Lab 2

**Q1.** Inserts a new record in the "Customers" table, you can use yourself or any Pseudo people's information. Please leave the address field as NULL.

**Screenshots:**

**SQL Statement:**

```
INSERT INTO Customers (CustomerName, Address) VALUES ('Jesse Russell', NULL)
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

**Result:**

You have made changes to the database. Rows affected: 1

**Explanation:**

To insert myself into the database with the address as null, I used the command “INSERT INTO Customers (CustomerName, Address) VALUES ('Jesse Russell', NULL)”

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**Q2.** Lists all customers with a NULL value in the "Address" field.

### Screenshots

SQL Statement:

```
SELECT * FROM [Customers]
WHERE Address IS null
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 1

CustomerID	CustomerName	ContactName	Address	City	PostalCode
92	Jesse Russell	null	null	null	null

### Explanation:

To display all customers with NULL in the address field, I used the “SELECT \* FROM Customers WHERE Address IS NULL” command.

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**Q3.** Update the new customer created in task 2.1 with a pseudo address.

**Screenshots:**

### SQL Statement:

```
UPDATE Customers SET Address = '123 Main St' WHERE CustomerName = 'Jesse Russell'
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

### Result:

You have made changes to the database. Rows affected: 1

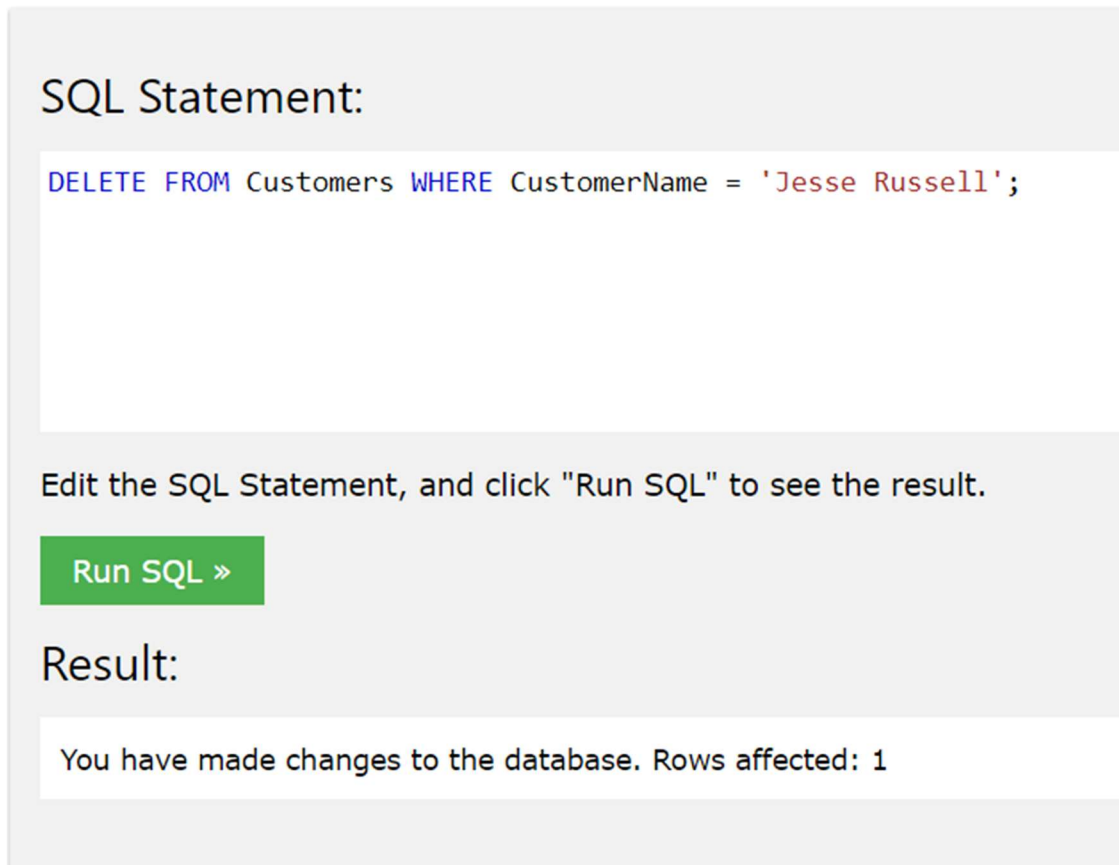
**Explanation:**

To update my address, I used the command “UPDATE Customers SET Address = ‘123 Main St’ WHERE CustomerName = ‘Jesse Russell’”

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**Q4.** Delete the new customer just created.

**Screenshots:**



The screenshot shows a web-based SQL interface. At the top, under the heading "SQL Statement:", there is a text area containing the SQL command: `DELETE FROM Customers WHERE CustomerName = 'Jesse Russell';`. Below this text area is a green button labeled "Run SQL »". Underneath the button, the heading "Result:" is displayed. Below "Result:", a white box contains the message: "You have made changes to the database. Rows affected: 1".

**Explanation:**

To delete my entry, I used the command “DELETE FROM Customers WHERE CustomerName = ‘Jesse Russell’;”

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**Q5.** Finds the price of the cheapest product.

**Screenshots:**

The screenshot shows a web-based SQL interface. At the top, under the heading "SQL Statement:", the query `SELECT MIN(Price) AS SmallestPrice FROM Products;` is entered. Below the query editor is a green button labeled "Run SQL »". Under the heading "Result:", it shows "Number of Records: 1". Below this is a table with one column, "SmallestPrice", and one row containing the value "2.5".

SmallestPrice
2.5

**Explanation:**

To find the smallest priced product, I used the command “SELECT MIN(Price) AS SmallestPrice FROM Products;”

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**Q6.** Finds the average price of all products.

**Screenshots:**

The screenshot shows a web-based SQL execution tool. At the top, under the heading "SQL Statement:", the query `SELECT AVG(Price)` and `FROM Products;` is entered. Below the query editor, there is a green button labeled "Run SQL »". Under the heading "Result:", it shows "Number of Records: 1". Below this, a table displays the result of the query.

AVG(Price)
28.8663636363637

**Explanation:**

To find the average price of the product, I used the command “SELECT AVG(Price) FROM Products;”

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**Q7.** Selects all customers with a CustomerName that starts with "D" and are at least 3 characters in length.

**Screenshots:**

**SQL Statement:**

```
SELECT * FROM Customers
WHERE CustomerName LIKE 'd_%_%'
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

**Result:**

Number of Records: 3

CustomerID	CustomerName	ContactName	Address
17	Drachenblut Delikatessend	Sven Ottlieb	Walserweg 21
18	Du monde entier	Janine Labrune	67, rue des Cinquante Otages
86	Die Wandernde Kuh	Rita Müller	Adenauerallee 900

**Explanation:**

To show all customers with a CustomerName that starts with D and are at least 3 characters in length, I used the command “SELECT \* FROM Customers WHERE CustomerName LIKE ‘d\_%\_%’;”