

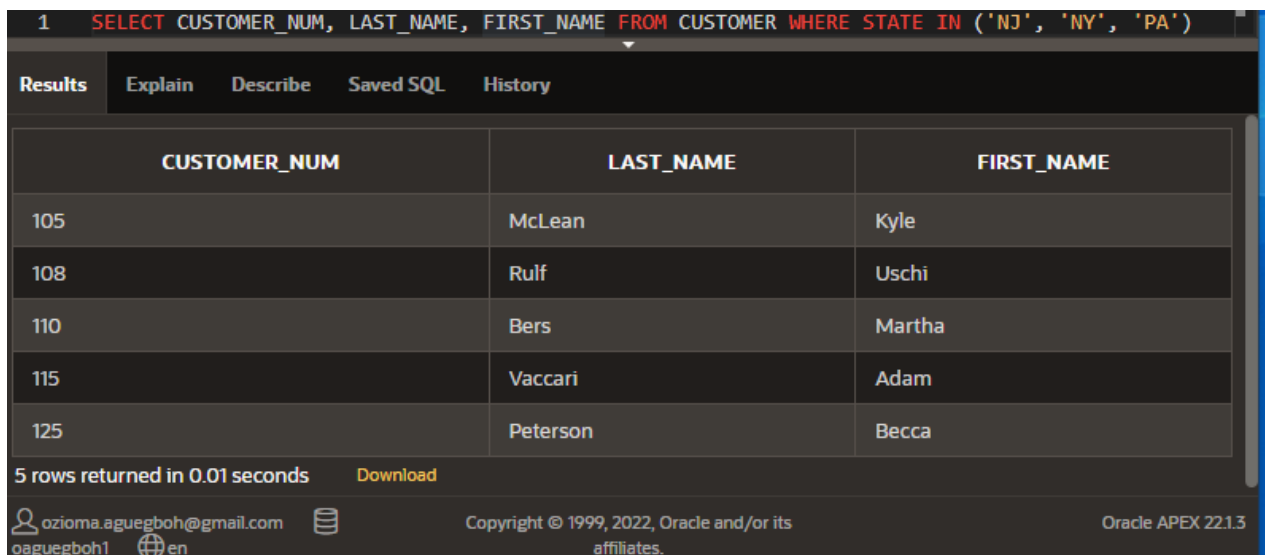
Database

Ozioma Aguegboh

Task#4

SQL: SINGLE TABLE QUERIES . . . continued

5. List the customer number, customer last name, and customer first name of each customer that lives in New Jersey (NJ), New York (NY), or Pennsylvania (PA). Use the IN operator in your command.



The screenshot shows an Oracle APEX interface with a SQL query editor at the top containing the query: `1 SELECT CUSTOMER_NUM, LAST_NAME, FIRST_NAME FROM CUSTOMER WHERE STATE IN ('NJ', 'NY', 'PA')`. Below the editor is a tabbed interface with 'Results' selected. The results are displayed in a table with three columns: **CUSTOMER_NUM**, **LAST_NAME**, and **FIRST_NAME**. The table contains five rows of data. Below the table, it states '5 rows returned in 0.01 seconds' and provides a 'Download' link. The footer includes the user 'ozioma.aguegboh@gmail.com', the session 'oaguegboh1', the copyright notice 'Copyright © 1999, 2022, Oracle and/or its affiliates.', and the version 'Oracle APEX 22.1.3'.

CUSTOMER_NUM	LAST_NAME	FIRST_NAME
105	McLean	Kyle
108	Rulf	Uschi
110	Bers	Martha
115	Vaccari	Adam
125	Peterson	Becca

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6. Repeat Exercise 5 and sort the records by state in descending order and then by customer last name in ascending order.

```
1 SELECT CUSTOMER_NUM, LAST_NAME, FIRST_NAME, STATE FROM CUSTOMER
2 WHERE STATE IN ('NJ', 'NY', 'PA') ORDER BY STATE DESC, LAST_NAME ASC;
```

Results Explain Describe Saved SQL History

CUSTOMER_NUM	LAST_NAME	FIRST_NAME	STATE
108	Rulf	Uschi	PA
110	Bers	Martha	NY
105	McLean	Kyle	NY
125	Peterson	Becca	NY

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7. How many trips are in the states of Maine (ME) or Massachusetts (MA)?

```
1 SELECT COUNT(*) FROM TRIP WHERE STATE = 'ME' OR STATE = 'MA';
```

Results Explain Describe Saved SQL History

COUNT(*)
16

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8. How many trips originate in each state?

```
1 SELECT COUNT(TRIP_NAME), STATE FROM TRIP GROUP BY STATE;
```

Results Explain Describe Saved SQL History

COUNT(TRIP_NAME)	STATE
2	CT
4	MA
19	NH
12	ME
4	VT

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9. How many reservations include a trip price that is greater than \$20 but less than \$75?

```
1 SELECT COUNT(RESERVATION_ID), TRIP_PRICE FROM RESERVATION
2 WHERE TRIP_PRICE > 20 AND TRIP_PRICE < 75 GROUP BY TRIP_PRICE;
```

Results	Explain	Describe	Saved SQL	History
COUNT(RESERVATION_ID)		TRIP_PRICE		
2		40		
1		45		
2		70		
3		35		
2		55		

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10. How many trips of each type are there?

```
1 SELECT COUNT(TYPE) AS NumberOfType, TYPE FROM TRIP GROUP BY TYPE;
```

Results	Explain	Describe	Saved SQL	History
NUMBEROFTYPE		TYPE		
9		Paddling		
8		Biking		
24		Hiking		

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11. Colonial Adventure Tours calculates the total price of a trip by adding the trip price plus other fees and multiplying the result by the number of persons included in the reservation. List the reservation ID, trip ID, customer number, and total price for all reservations where the number of persons is greater than four. Use the column name TOTAL_PRICE for the calculated field.

```
1 SELECT RESERVATION_ID, TRIP_ID, CUSTOMER_NUM, NUM_PERSONS,
2 TRIP_PRICE, OTHER_FEES,
3 ((TRIP_PRICE + OTHER_FEES)* NUM_PERSONS) AS TOTAL_PRICE
4 FROM RESERVATION WHERE NUM_PERSONS>4;
```

RESERVATION_ID	TRIP_ID	CUSTOMER_NUM	NUM_PERSONS	TRIP_PRICE	OTHER_FEES	TOTAL_PRICE
1600005	39	105	5	55	0	275
1600007	22	107	8	75	10	680
1600016	11	121	6	75	15	540
1600030	15	104	6	60	15	450

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12. Find the name of each trip containing the word “Pond.”

```
1 SELECT TRIP_NAME FROM TRIP WHERE TRIP_NAME LIKE '%Pond'
```

Results Explain Describe Saved SQL History

TRIP_NAME
Black Pond
Cherry Pond
Long Pond

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13. List the guide's last name and guide's first name for all guides that were hired before June 10, 2013.

```
1 SELECT LAST_NAME, FIRST_NAME, HIRE_DATE FROM GUIDE
2 WHERE HIRE_DATE > '06/10/2013'
```

Results Explain Describe Saved SQL History

LAST_NAME	FIRST_NAME	HIRE_DATE
Marston	Ray	09/14/2015
Rowan	Hal	06/02/2014
Stevens	Lori	09/05/2014
Unser	Glory	02/02/2015

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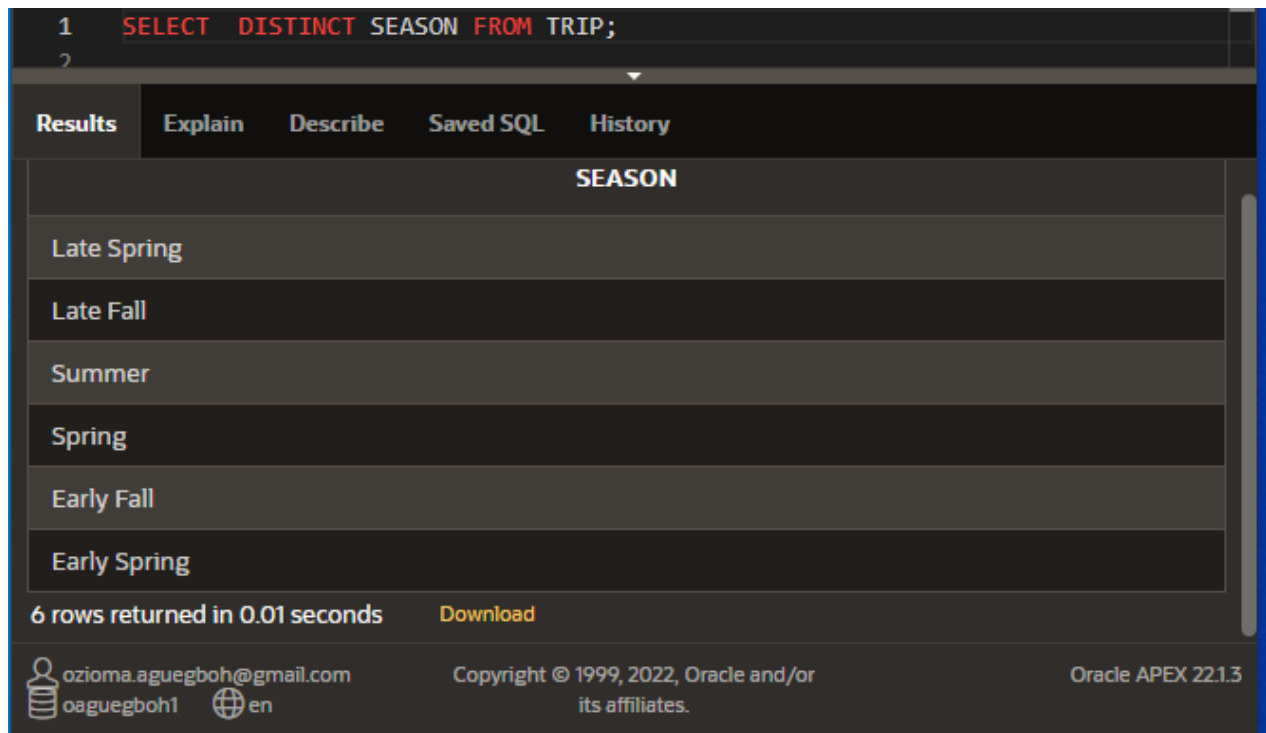
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14. What is the average distance and the average maximum group size for each type of trip?

[illegible]

15. Display the different seasons in which trips are offered. List each season only once.



The screenshot shows the Oracle APEX SQL editor interface. At the top, a SQL query is entered in a text area: `1 SELECT DISTINCT SEASON FROM TRIP;`. Below the query area, there are tabs for **Results**, **Explain**, **Describe**, **Saved SQL**, and **History**. The **Results** tab is active, displaying a table with the following data:

SEASON
Late Spring
Late Fall
Summer
Spring
Early Fall
Early Spring

Below the table, it states "6 rows returned in 0.01 seconds" and provides a [Download](#) link. At the bottom of the interface, there is a footer area containing the user's email address (ozioma.aguegboh@gmail.com), the username (oaguegboh1), the language (en), the copyright notice (Copyright © 1999, 2022, Oracle and/or its affiliates.), and the Oracle APEX version (22.1.3).



16. What is the longest distance for a biking trip?

```
1 SELECT MAX(DISTANCE) FROM TRIP WHERE TYPE = 'Biking';
```

Results Explain Describe Saved SQL History

MAX(DISTANCE)
27

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17. For each trip in the RESERVATION table that has more than one reservation, group by trip ID and sums the trip price. (Hint: Use the COUNT function and a HAVING clause.)

```
1  SELECT TRIP_ID, SUM(TRIP_PRICE) FROM RESERVATION
2  GROUP BY TRIP_ID HAVING COUNT(TRIP_ID)>1;
```

Results Explain Describe Saved SQL History

TRIP_ID	SUM(TRIP_PRICE)
21	190
12	80
28	105
38	315
39	75
32	170

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18. How many current reservations does Colonial Adventure Tours have and what is the total number of persons for all reservations?

```
1 SELECT COUNT(RESERVATION_ID) AS Present_Reservation, SUM(NUM_PERSONS)
2 FROM RESERVATION;
```

Results Explain Describe Saved SQL History

PRESENT_RESERVATION	SUM(NUM_PERSONS)
27	77

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