Table Structure:
Create a table named customers with the following structure:

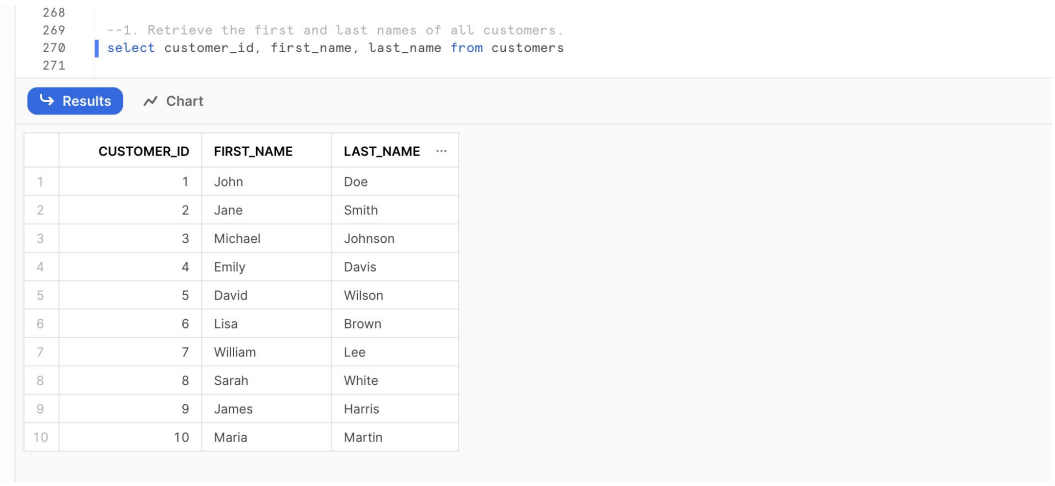
```
CREATE TABLE customers (
  customer_id INT PRIMARY KEY,
  first_name VARCHAR(50),
  last_name VARCHAR(50),
  gender VARCHAR(10),
  city VARCHAR(50),
  age INT
);
```

Insert Data: Insert the following sample data into the customers table:

```
INSERT INTO customers (customer_id, first_name, last_name, gender, city, age)
VALUES
  (1, 'John', 'Doe', 'Male', 'New York', 35),
  (2, 'Jane', 'Smith', 'Female', 'Los Angeles', 28),
  (3, 'Michael', 'Johnson', 'Male', 'Chicago', 45),
  (4, 'Emily', 'Davis', 'Female', 'Houston', 22),
  (5, 'David', 'Wilson', 'Male', 'Miami', 40),
  (6, 'Lisa', 'Brown', 'Female', 'New York', 32),
  (7, 'William', 'Lee', 'Male', 'Los Angeles', 29),
  (8, 'Sarah', 'White', 'Female', 'Chicago', 50),
  (9, 'James', 'Harris', 'Male', 'Houston', 37),
  (10, 'Maria', 'Martin', 'Female', 'Miami', 24);
```

Write SQL queries to answer the following questions using the customers table:

```
--1. Retrieve the first and last names of all customers.
select customer_id, first_name, last_name from customers
```



	CUSTOMER_ID	FIRST_NAME	LAST_NAME
1	1	John	Doe
2	2	Jane	Smith
3	3	Michael	Johnson
4	4	Emily	Davis
5	5	David	Wilson
6	6	Lisa	Brown
7	7	William	Lee
8	8	Sarah	White
9	9	James	Harris
10	10	Maria	Martin

--2. Find the total number of customers in the dataset.
select count(*) total_customers from customers

```
271
272  --2. Find the total number of customers in the dataset.
273  select count(*) total_customers from customers
274
```

Results | Chart

	TOTAL_CUSTOMERS
1	10

--3. Get the names of male customers.
select customer_id, first_name, last_name from customers where gender='Male'

```
275  --3. Get the names of male customers.
276  select customer_id, first_name, last_name from customers where gender='Male'
277
```

Results | Chart

	CUSTOMER_ID	FIRST_NAME	LAST_NAME
1	1	John	Doe
2	3	Michael	Johnson
3	5	David	Wilson
4	7	William	Lee
5	9	James	Harris

--4. Find customers who are aged 30 or older.
select customer_id, first_name, last_name from customers where age>=30

```
278  --4. Find customers who are aged 30 or older.
279  select customer_id, first_name, last_name from customers where age>=30
280
```

Results | Chart

	CUSTOMER_ID	FIRST_NAME	LAST_NAME
1	1	John	Doe
2	3	Michael	Johnson
3	5	David	Wilson
4	6	Lisa	Brown
5	8	Sarah	White
6	9	James	Harris

--5. List customers from New York.
select customer_id, first_name, last_namefrom customers where city ='New York'

```
281  --5. List customers from New York.
282  select customer_id, first_name, last_name from customers where city ='New York'
283
```

Results | Chart

	CUSTOMER_ID	FIRST_NAME	LAST_NAME
1	1	John	Doe
2	6	Lisa	Brown

--6. Retrieve customers whose first name starts with 'J'.
select customer_id, first_name, last_name from customers where first_name like 'J%'

```
283
284  --6. Retrieve customers whose first name starts with 'J'.
285  select customer_id, first_name, last_name from customers where first_name like 'J%'
286
```

Results | Chart

	CUSTOMER_ID	FIRST_NAME	LAST_NAME
1	1	John	Doe
2	2	Jane	Smith
3	9	James	Harris

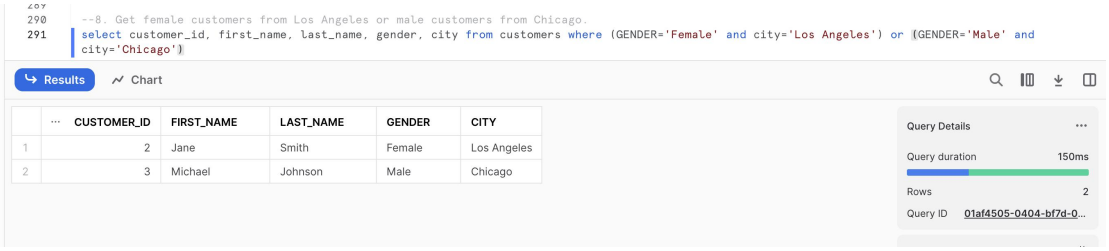
--7. Find customers aged between 25 and 35 (inclusive).
select customer_id, first_name, last_name, age from customers where age between 25 and 35

```
286
287  --7. Find customers aged between 25 and 35 (inclusive).
288  select customer_id, first_name, last_name, age from customers where age between 25 and 35
289
```

Results | Chart

	CUSTOMER_ID	FIRST_NAME	LAST_NAME	AGE
1	1	John	Doe	35
2	2	Jane	Smith	28
3	6	Lisa	Brown	32
4	7	William	Lee	29

--8. Get female customers from Los Angeles or male customers from Chicago.
select customer_id, first_name, last_name from customers where (GENDER='Female' and city='Los Angeles') or (GENDER='Male' and city='Chicago')



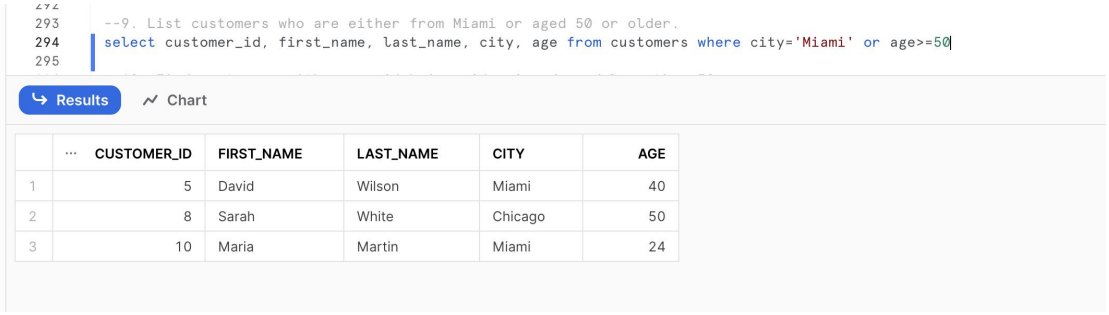
```
290  --8. Get female customers from Los Angeles or male customers from Chicago.
291  select customer_id, first_name, last_name, gender, city from customers where (GENDER='Female' and city='Los Angeles') or (GENDER='Male' and
     city='Chicago')
```

Results | Chart

	CUSTOMER_ID	FIRST_NAME	LAST_NAME	GENDER	CITY
1	2	Jane	Smith	Female	Los Angeles
2	3	Michael	Johnson	Male	Chicago

Query Details
Query duration 150ms
Rows 2
Query ID 01af4505-0404-bf7d-0...

--9. List customers who are either from Miami or aged 50 or older.
select customer_id, first_name, last_name from customers where city='Miami' or age>=50



```
293  --9. List customers who are either from Miami or aged 50 or older.
294  select customer_id, first_name, last_name, city, age from customers where city='Miami' or age>=50
295
```

Results | Chart

	CUSTOMER_ID	FIRST_NAME	LAST_NAME	CITY	AGE
1	5	David	Wilson	Miami	40
2	8	Sarah	White	Chicago	50
3	10	Maria	Martin	Miami	24

--10. Find customers with names 'John' or 'Jane' and aged less than 30.
select customer_id, first_name, last_name from customers where first_name in ('John','Jane')

```
295
296  --10. Find customers with names 'John' or 'Jane' and aged less than 30.
297  select customer_id, first_name, last_name from customers where first_name in ('John','Jane')
298
299
```

Results | Chart

	CUSTOMER_ID	FIRST_NAME	LAST_NAME
1	1	John	Doe
2	2	Jane	Smith