



SQL ASSIGNMENT 2

Assignment - 4 : SQL WHERE Clause and Logical Operators

Instructions :

- *Reference: Lectures In Snowflake & SQL folder (AWA - APP+WEBSITE)*
- *Due Date : 30th-Sept-2023 11:59 PM(Midnight)*
- *Late submissions will not be evaluated*
- *Its mandatory to do all questions*
- *Use SNOWFLAKE for the task submission while for practice one can execute in MySQL Workbench too.*
- *Proper comments should be given for the code explanation wherever required.*
- *Proper snippets should be attached of the output(mandatory) and write the code too.*
- *Don't do plagiarism*
- *Kindly don't USE JOINS or WINDOWS functions in any of the problems.*
- *Kindly upload the assignment by uploading it in the below GOOGLE DRIVE FOLDER as per the mentioned format(only pdf) as **fullname_assignment_name_yyyy_mm_dd.pdf**(anandjha_sql_assignment4_2023_09_13.pdf) :*

https://drive.google.com/drive/folders/1SN6i0WaGI9eV2Cg5p7fkUyfCSTkEOgO3?usp=drive_link

Dataset: Customer Information

You have been given a dataset containing information about customers. The dataset includes the following columns:

- **customer_id** (integer): Unique identifier for each customer.
- **first_name** (string): First name of the customer.
- **last_name** (string): Last name of the customer.
- **gender** (string): Gender of the customer (e.g., 'Male' or 'Female').
- **city** (string): The city where the customer resides.
- **age** (integer): The age of the customer.

Table Structure:

Create a table named customers with the following structure:

```
CREATE TABLE customers (  
    customer_id INT PRIMARY KEY,
```



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```
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);
```

Instructions:

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

1. Retrieve the first and last names of all customers.
2. Find the total number of customers in the dataset.
3. Get the names of male customers.
4. Find customers who are aged 30 or older.
5. List customers from New York.



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6. Retrieve customers whose first name starts with 'J'.
7. Find customers aged between 25 and 35 (inclusive).
8. Get female customers from Los Angeles or male customers from Chicago.
9. List customers who are either from Miami or aged 50 or older.
10. Find customers with names 'John' or 'Jane' and aged less than 30.

Submission:

Submit the SQL queries for the questions above along with their results.

Note:

1. Please use appropriate SQL syntax.
2. Ensure that your queries are efficient and optimized.
3. Provide the SQL queries and the results in your submission.