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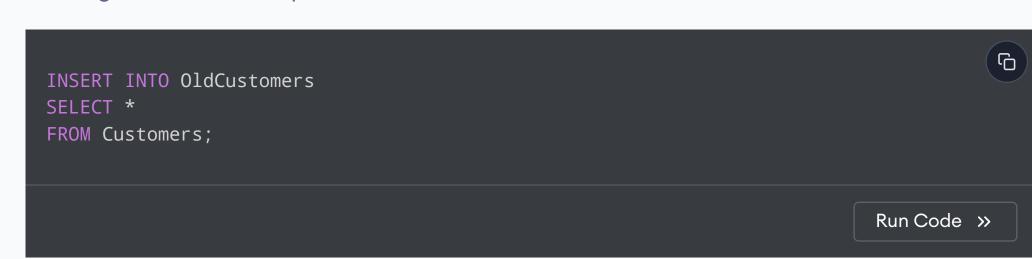
SQL SELECT INTO Statement

SQL INSERT INTO Statement

SQL INSERT INTO SELECT Statement

In this tutorial, we'll learn to copy records from one table to another with the help of examples.

The INSERT INTO SELECT statement is used to copy records from one table to another existing table. For example,



Here, the SQL command copies all records from the Customers table to the OldCustomers table.

Note: To run this command,

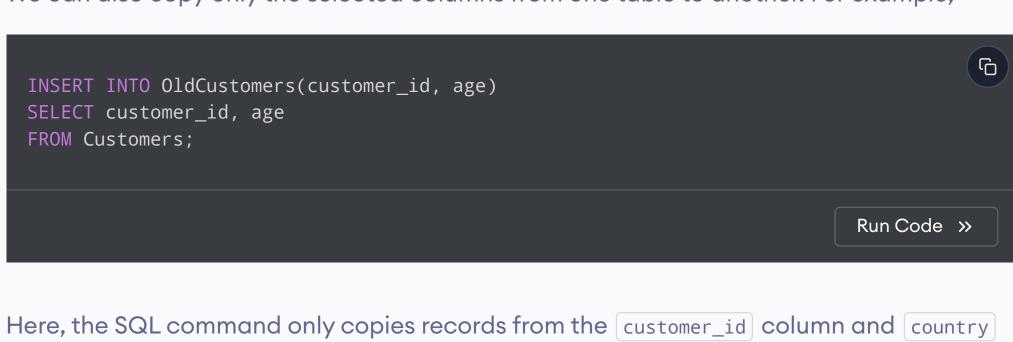
Old

- the database must already have a table named <code>OldCustomers</code>
- the column names of the OldCustomers table and the Customers table must match

If we want to copy data to a new table (rather than copying in an existing table), we should use the SELECT INTO statement.

Copy Selected Columns Only

We can also copy only the selected columns from one table to another. For example,

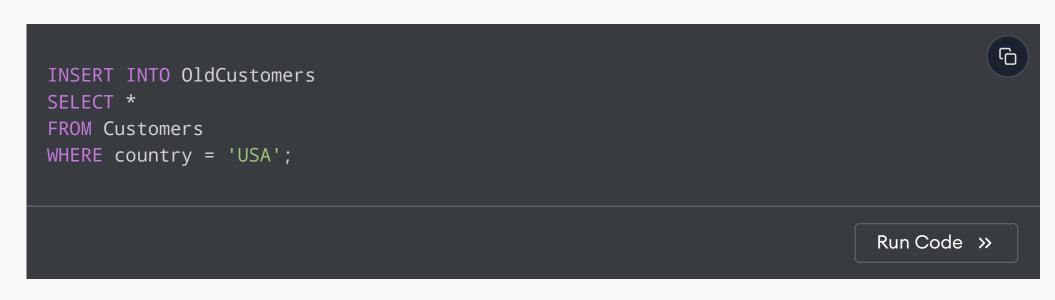


column to the OldCustomers table.

Note: If there are columns other than [customer_id] and [age] in the [OldCustomers] table, the value of those columns will be NULL.

Copy Records Matching a Condition

We can use the WHERE clause with INSERT INTO to copy those rows that match the specified condition. For example,



Here, the SQL command copies rows that are the value of the country column as **USA**.

Copy From two Tables to One

We can also copy records from two different tables using the JOIN clause with INSERT INTO SELECT. For example,

```
INSERT INTO OldCustomerOrders
SELECT Customers.customer_id, Customers.first_name, Orders.amount
FROM Customers
JOIN Orders
ON Customers.customer_id = Orders.customer_id;
                                                                         Run Code »
```

Here, the SQL command copies [customer_id] and [first_name] from the [Customers] table and the amount from the Orders table in an existing table OldCustomerOrders. To learn more, visit SQL JOIN.

Note: If records are already present in an existing table, new rows will be appended. Columns in the existing table may throw errors such as NOT NULL Constraint Failed, UNIQUE Constraint Failed while copying data.

Avoid Duplicates in INSERT INTO SELECT

If there is already a row with a similar value, SQL may throw an error while using the

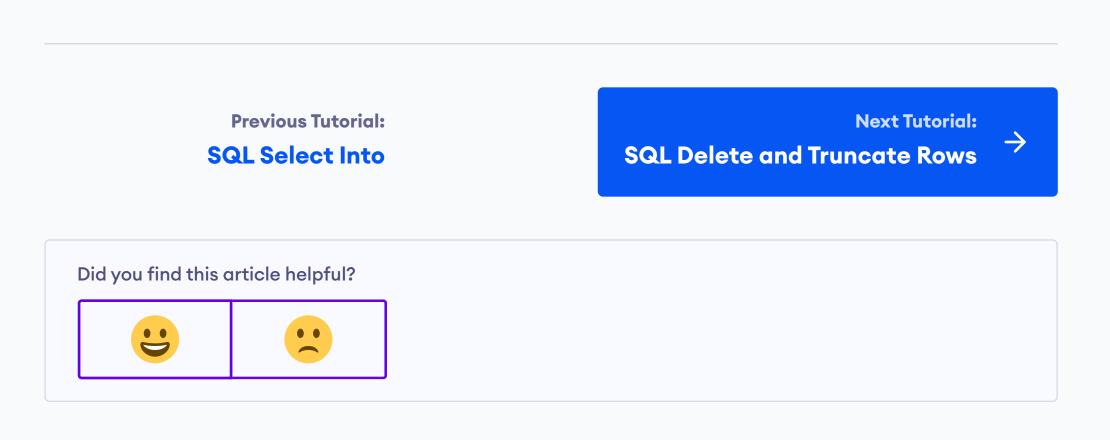
INSERT INTO SELECT command. However, we can skip copying duplicate rows using the NOT EXISTS clause. For example,

```
C 
INSERT INTO OldCustomers(customer_id, age)
SELECT customer_id, age
FROM Customers
WHERE NOT EXISTS(
 SELECT customer_id
 FROM OldCustomers
 WHERE OldCustomers.customer_id = Customers.customer_id
                                                                         Run Code »
```

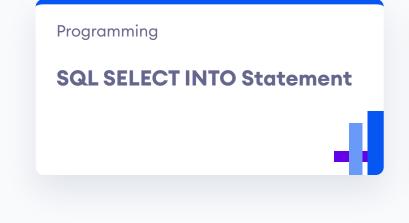
Here, the SQL command will only copy row to a new table if the <code>customer_id</code> does not have the same value.

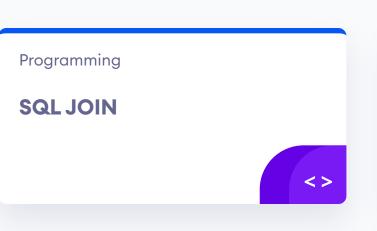
Recommended Readings

• SQL INSERT INTO Statement



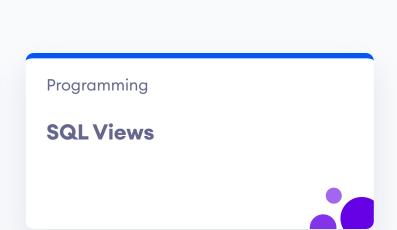
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