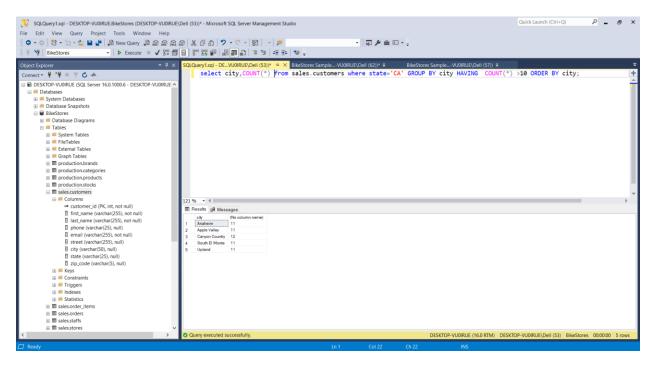
TASK ABOUT DATABASE ON DATA MANIUPILATION QUERIES

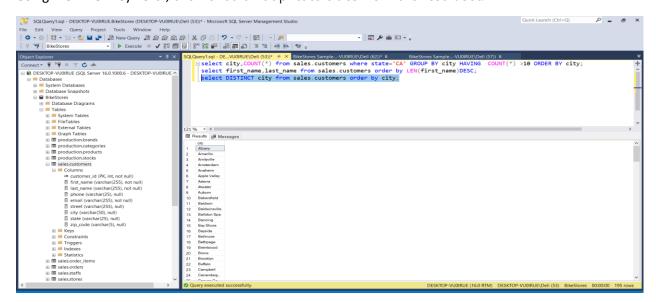
FIRST STEP is loading sample database, then practice the data manipulation queries

SELECT statement with **WHARE** clause to filter rows by one condition, to sort result based on one or more column use **OREDER BY**, to group rows into groups use GROUP BY, and to filter Groups based one or more conditions use HAVING clause

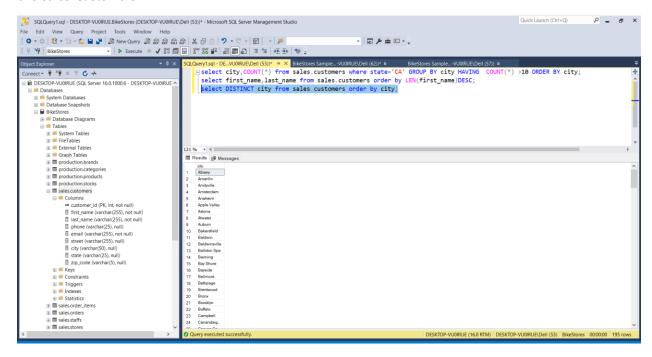
The WHERE clause filters rows while the HAVING clause filter groups.



Using **DISTINCT** keyword ,it removed all duplicate cities from the result set.

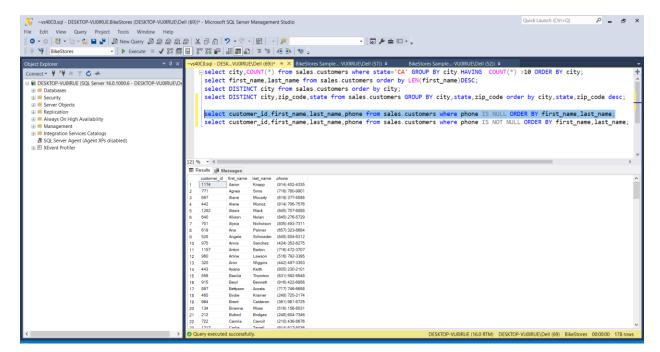


uses the **GROUP BY** clause to return **distinct** cities together with state and zip code from the sales. Customers



NULL

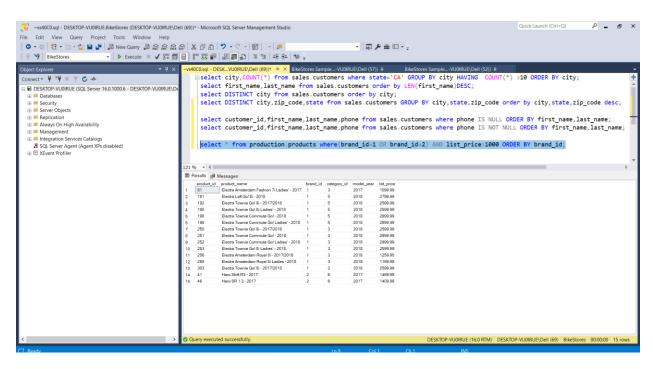
To test whether a value is NULL or not, you always use the IS NULL operator. IS NOT NULL to test the value is not null



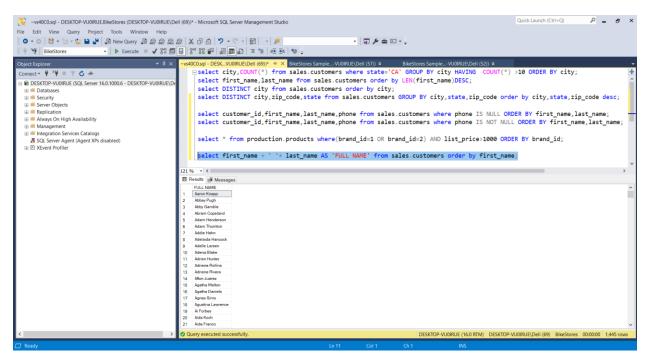
WHERE:

we used both **OR** and **AND** operators in the condition

To get the product whose brand id is one or two and list price is larger than 1,000



column alias:



Joins

Inner join produces a data set that includes rows from the left table, matching rows from the right table.

Left join selects data starting from the left table and matching rows in the right table. The left join returns all rows from the left table and the matching rows from the right table. If a row in the left table does not have a matching row in the right table, the columns of the right table will have **nulls**.

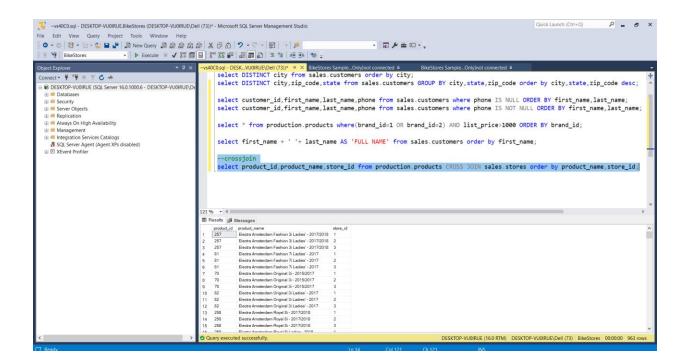
The right join returns a result set that contains all rows from the right table and the matching rows in the left table. If a row in the right table does not have a matching row in the left table, all columns in the left table will contain **nulls**.

The **full outer join or full join** returns a result set that contains all rows from both left and right tables, with the matching rows from both sides where available. In case there is no match, the missing side will have **NULL** values.

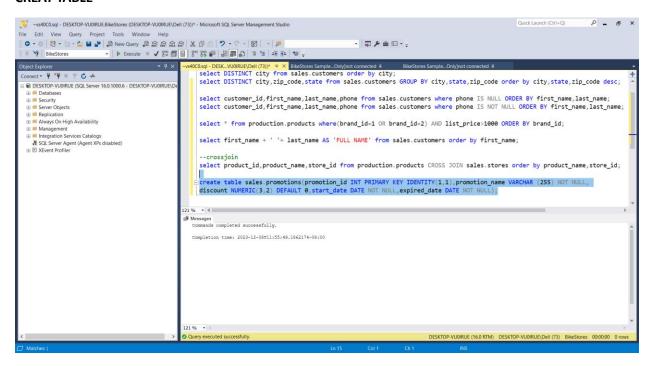
A self join used to join a table to itself. It helps query hierarchical data or compare rows within the same table.

A self join uses the inner join or left join clause. Because the query that uses the self join references the same table, the table alias is used to assign different names to the same table within the query.

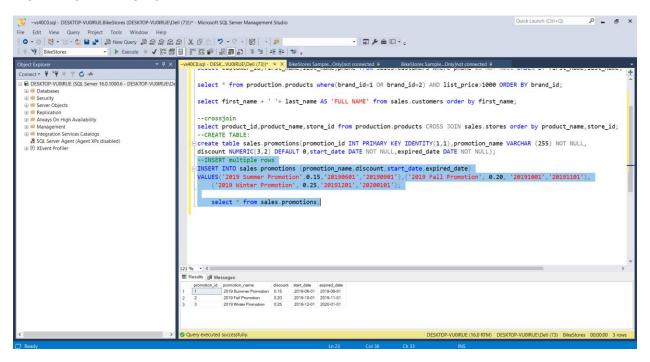
CROSS JOIN to join two or more unrelated tables.



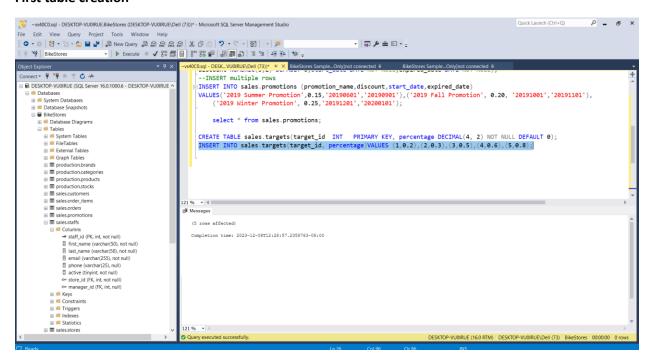
CREAT TABLE



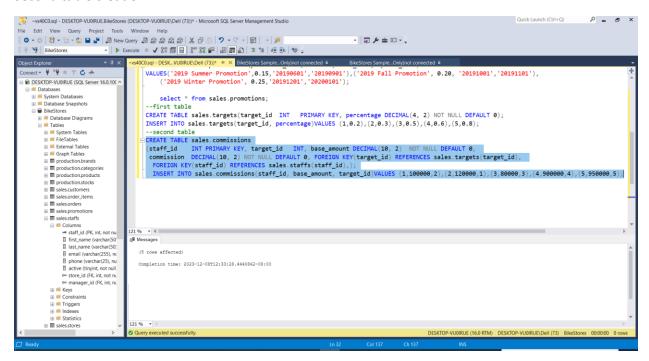
INSERT MULTIPLE ROWS:



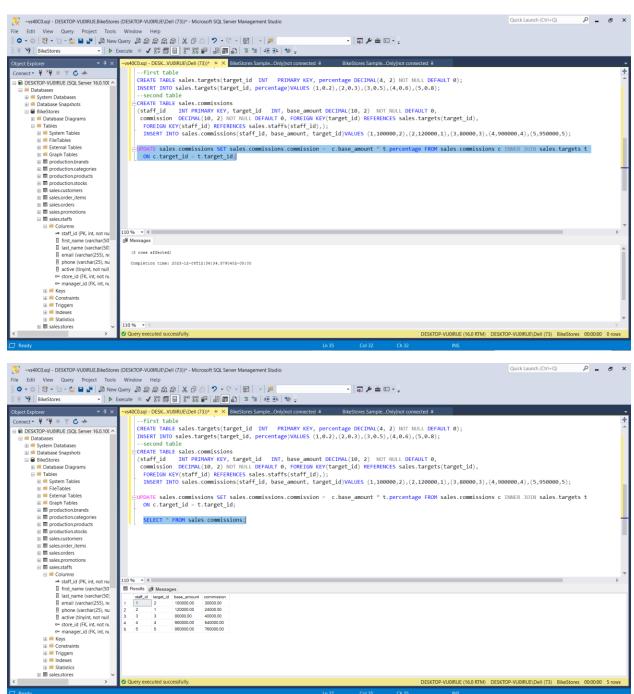
First table creation



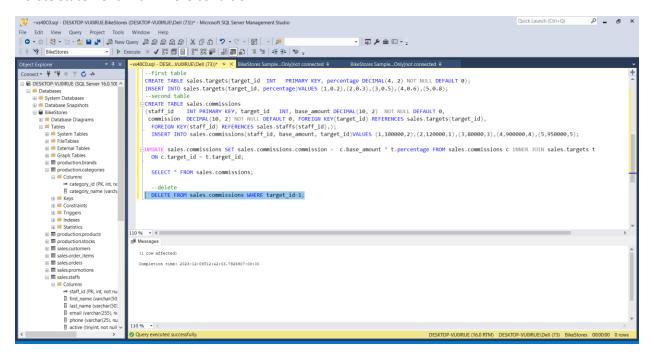
Second table creation



UPDATE INNER JOIN to calculate the sales commission for all sales staffs.



Delete statement with where condition



Sheikha khalifa ALQuyudhi