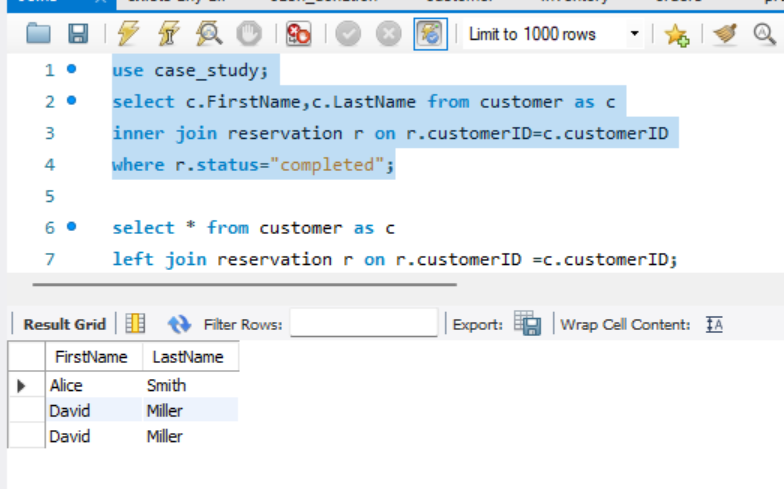
**Assignment 4-Use of Joins and different functions**

**Functions used in this document:**

* All types of Joins.
* Subqueries
* EXISTS, ANY, All
* ASCII, LEGNTH, LOWER, REVERSE, REPLACE, UPPER
* NOW, DATE\_ADD, TIMESTAMP, MONTH, DAY, YEAR
* ABS, SIN, CEIL, EXP, FLOOR, LOG
* AVG, COUNT, MIN, MAX, SUM, DISTINCT

**JOINS**

**Inner Join**

****

**Left Join**

**A screenshot of a computer

Description automatically generated**

**Right Join**

**A screenshot of a computer

Description automatically generated**

**Cross Join**

**A screenshot of a computer

Description automatically generated**

**Natural Join**

**A screenshot of a computer

Description automatically generated**

**Non-equi Join**

**A screenshot of a computer

Description automatically generated**

**Having, Group By**

**A screenshot of a computer

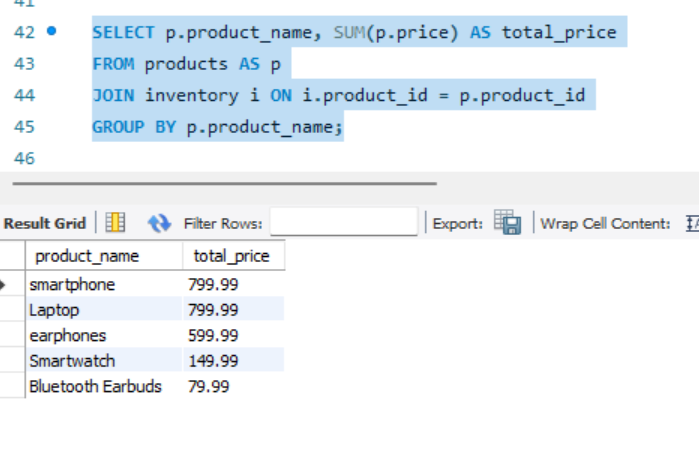
Description automatically generated**

**Order By**

**A screenshot of a computer

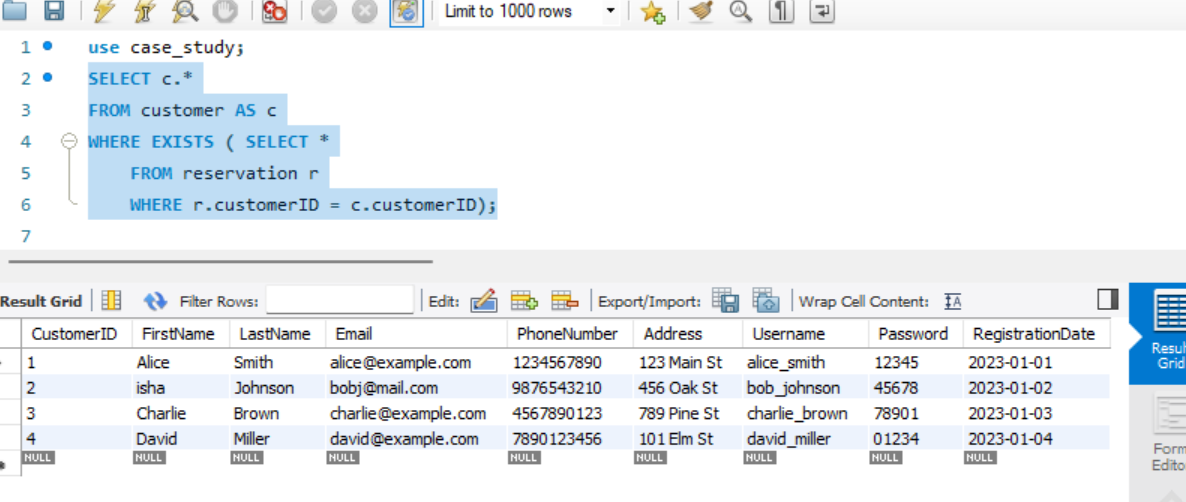
Description automatically generated**

**Aggregate function: sum with join and group by**

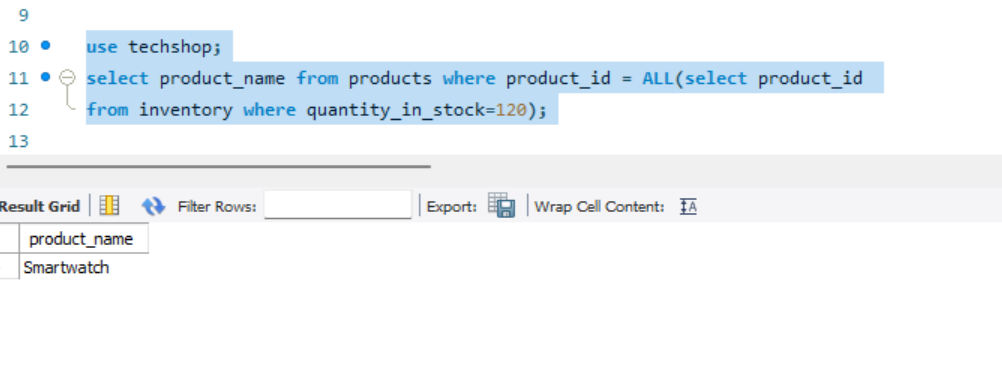
****

**SUBQUERY, EXISTS, ANY, ALL**

**Exists and Subquery**

****

**All and Subquery**

****

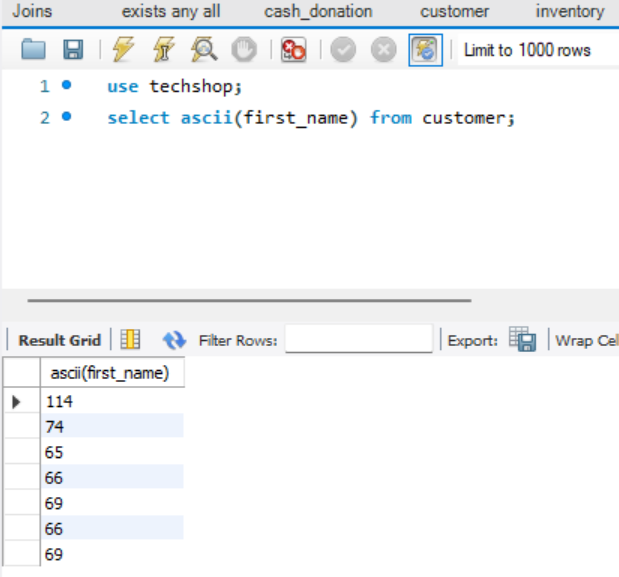
**Any and Subquery**

**A screenshot of a computer

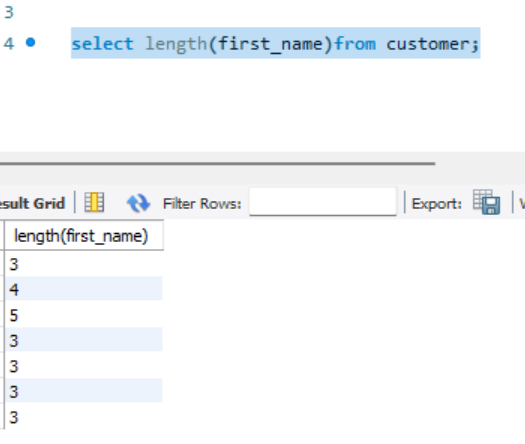
Description automatically generated**

**STRING** **FUNCTIONS: ASCII, LEGNTH, LOWER, REVERSE, REPLACE, UPPER**

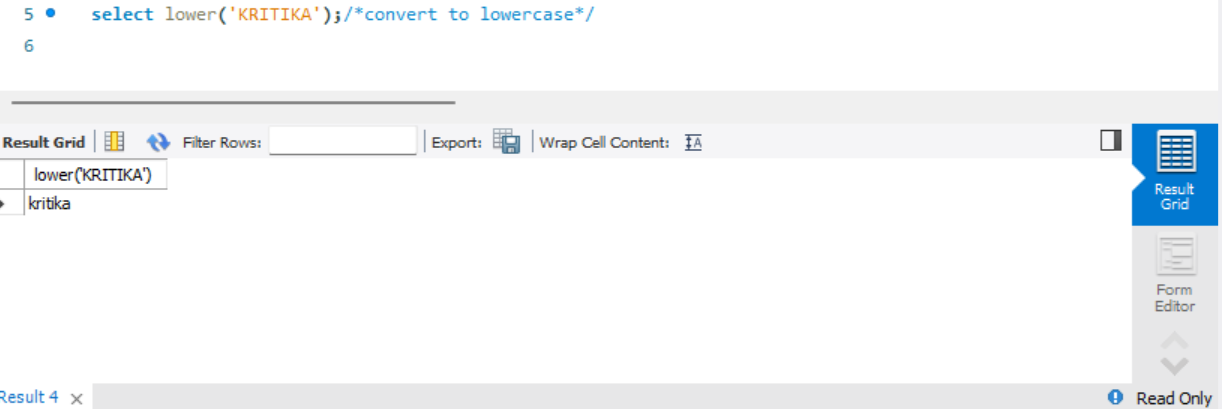
**Ascii**

****

**Length**

****

**LOWER**

****

**REPLACE**

**A screenshot of a computer

Description automatically generated**

**Reverse**

**A screenshot of a computer

Description automatically generated**

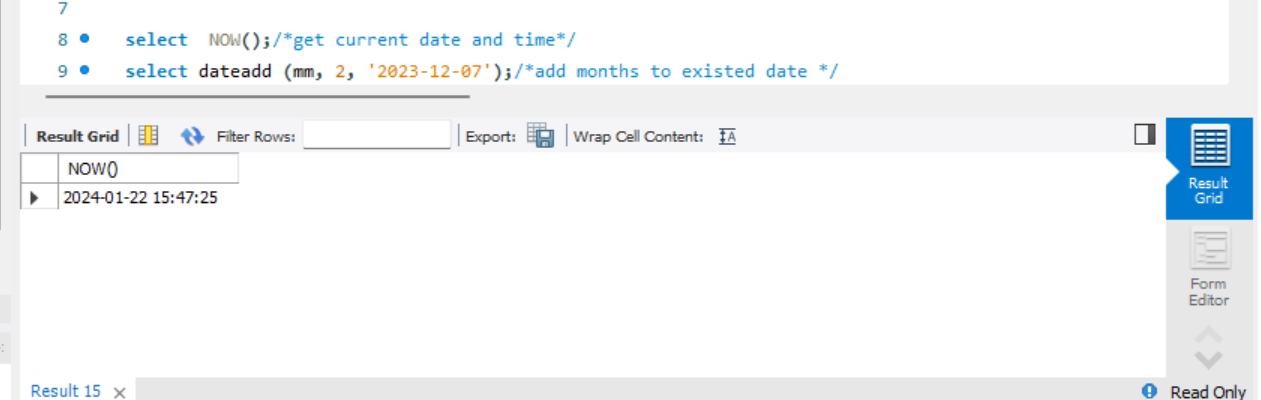
**Upper**

**A screenshot of a computer

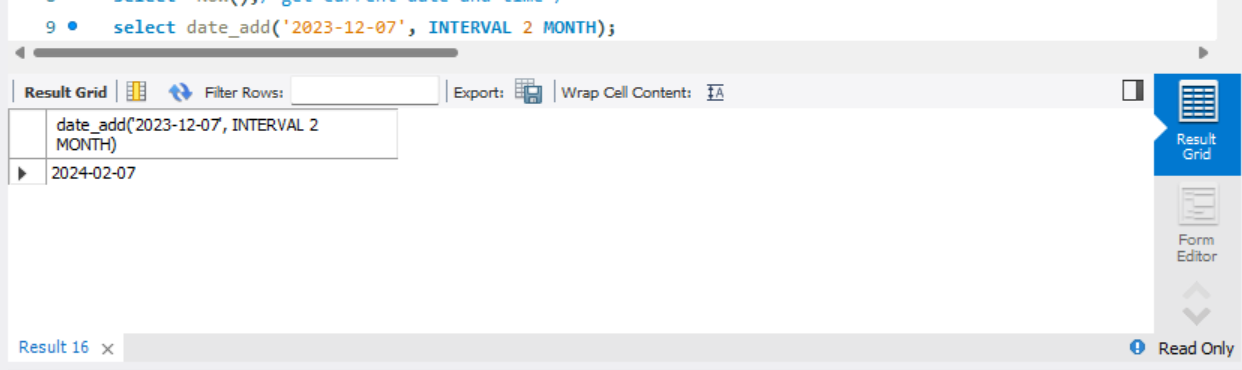
Description automatically generated**

**DATE FUNCTIONS: NOW, DATE\_ADD, TIMESTAMP, MONTH, DAY, YEAR**

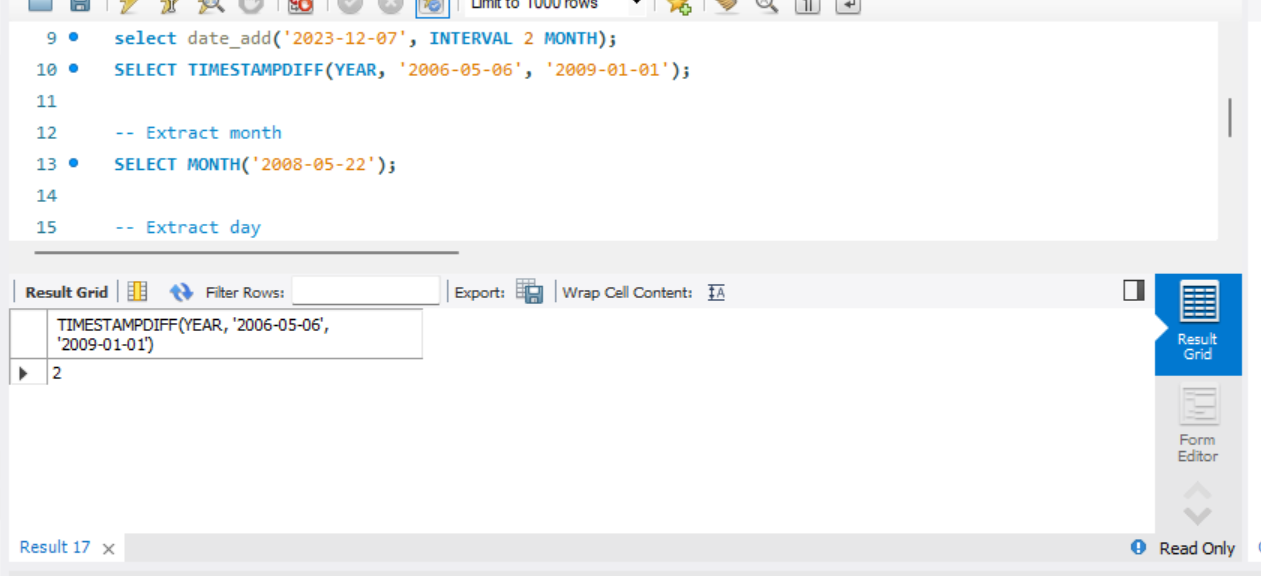
**Now**

****

**Date\_add()**

****

**Timestamp**

****

**Month**

**A screenshot of a computer program

Description automatically generated**

**Day**

**A screenshot of a computer

Description automatically generated**

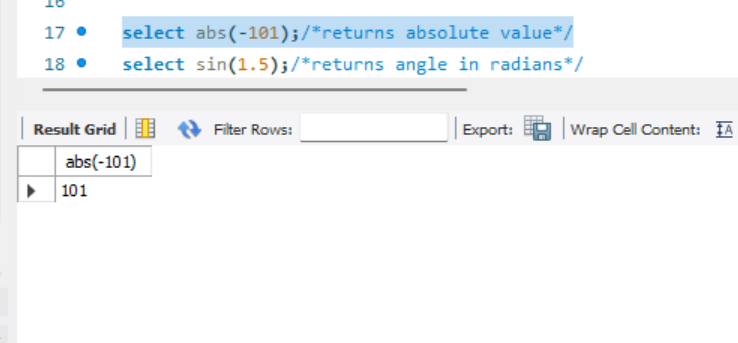
**Year**

**A screenshot of a computer

Description automatically generated**

**MATH FUNCTIONS: ABS, SIN, CEIL, EXP, FLOOR, LOG**

**Absolute**

****

**For angle**

**A screenshot of a computer

Description automatically generated**

**Ceil**

**A screenshot of a computer

Description automatically generated**

**Floor**

**A screenshot of a computer program

Description automatically generated**

**Exponential**

**A screenshot of a computer

Description automatically generated**

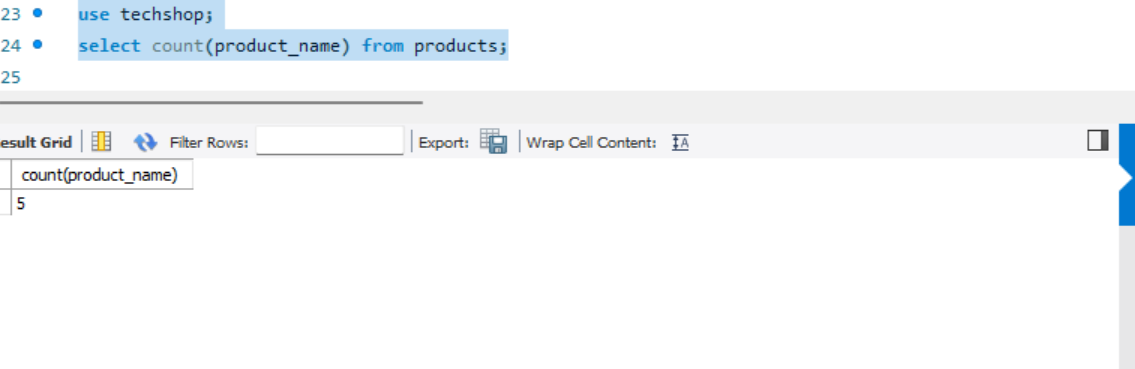
**Log**

**A screenshot of a computer

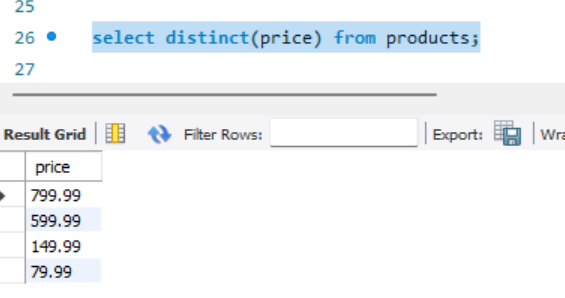
Description automatically generated**

**AGGREGATE FUNCIONS: COUNT, DISTINCT, MIN, MAX, SUM, AVG**

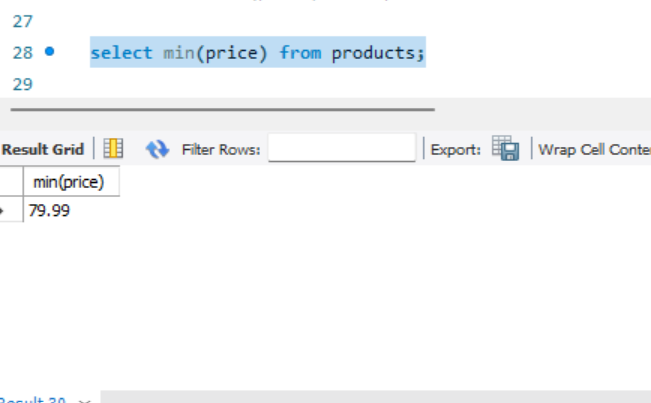
**Count**

****

**Distinct**

****

**Min**

****

**Max**

**A screenshot of a computer

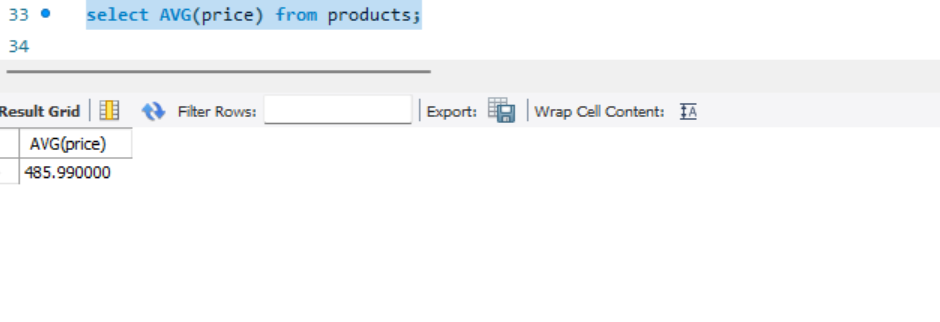
Description automatically generated**

**SUM**

**A screenshot of a computer

Description automatically generated**

**AVG**

****