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Module-6 : Creating Calculated Fields
By concatenating different Fields
Concatenate: Joining values together to form a single long value.
SELECT vend name + vend country
FROM Vendors
ORDER BY vend name;
SELECT_vend_name + '(' + vend_country + ')'
FROM Vendors
ORDER BY vend name;
SQL Server uses + for concatenation. DB2, Oracle, PostgreSQL, and SQLite support
The TRIM Functions:
RTRIM() - which trims the right side (trailing spaces) of a string
LTRIM() - which trims the left side (leading spaces) of a string
TRIM() - which trims both the right and left.
SELECT RTRIM(vend_name) + ' (' + RTRIM(vend_country) + ')'
FROM Vendors
ORDER BY vend name;
SELECT LTRIM(vend_name) + ' (' + LTRIM(vend_country) +
FROM Vendors
ORDER BY vend name;
SELECT TRIM(vend_name) + ' (' + TRIM(vend_country) + ')'
FROM Vendors
ORDER BY vend name;
SELECT RTRIM(LTRIM(vend name)) + ' (' + RTRIM(LTRIM(vend country)) + ')'
FROM Vendors
ORDER BY vend name;
Using Aliases :
Alias is just an alternate name for a field or value.
common uses of aliases is to rename multiword column names to single-word names
Aliases are also sometimes referred to as derived columns
SELECT RTRIM(vend name) + ' (' + RTRIM(vend country) +
AS vend title
FROM Vendors
ORDER BY vend name;
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SELECT RTRIM(vend_name) + ' (' + RTRIM(vend_country) + ')'
AS 'vend title'
FROM Vendors
ORDER BY vend name;
Performing Mathematical Calculations:
SELECT prod_id, quantity, item_price
FROM OrderItems
WHERE order_num = 20008;
SELECT prod_id, quantity, item_price,
quantity*item_price AS expanded_price
FROM OrderItems
WHERE order num = 20008;
```

Challenges:

1. Write a SQL statement that retrieves vend_id, vend_name, vend_address, and vend_city from Vendors,

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renaming vend_name to vname, vend_city to vcity, and vend_address to vaddress. Sort the results by vendor name

(you can use the original name or the renamed name).

2. Write a SQL statement that returns prod_id, prod_price, and sale_price from the Products table.

(Sale price = 10% off price on original prod price)