

How to Best Work on SQL Scalar Function Question

Question:

Create a scalar function that will accept a customer ID and return the customer's account number.

Solution:

```
CREATE FUNCTION uf_GetAccountNumberForCustomer
(@CustID int)
RETURNS varchar(10)
AS
BEGIN
    -- Declare a variable
    DECLARE @AcctNo varchar(10);
    -- Set the value of the variable
    SELECT @AcctNo = AccountNumber
        FROM AdventureWorks2008R2.Sales.Customer
        WHERE CustomerID = @CustID;
    -- Return the calculated value
    RETURN @AcctNo;
END;
```

Hints:

- 1) Follow SQL syntax.
- 2) Declare a parameter to accept the value we feed the FUNCTION for processing.
- 3) A scalar FUNCTION returns a single value.
- 4) Declare a variable to contain the value a FUNTION will return in the body of the FUNCTION.
- 5) Set the value of the variable in the body of the function.
- 6) Specify a database name so that we can get data from it in our own database, such as **AdventureWorks2008R2.Sales.Customer**.
- 7) Use the RETURN command to return the value generated by the FUNCTION.

```
-- Use the function
SELECT dbo.uf_GetAccountNumberForCustomer(29811);

-- Do housekeeping
DROP FUNCTION dbo.uf_GetAccountNumberForCustomer;
```

- 8) Use the SELECT command to run a FUNCTION.
- 9) Use DROP FUNCTION to delete a FUNCTION.