Demonstration: Writing the CASE Expression

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Using the purchased_products table, create a new column named Financial_Quarter that holds the correct quarter values for Orion Star's financial year. Because the Orion Star financial year starts December 1, the QUARTER function cannot be used, and quarters must be grouped as follows:

Quarter	Time Period
1	12-2 (December through February)
2	3-5 (March through May)
3	6-8 (June through August)
4	9-11 (September through November)

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 - 1. Add the purchased_products table to the project.
 - 2. Select **Query Builder** in the data grid. Name the query **Financial Quarters Query** and the data table **FinancialQuarters**.
 - 3. To begin creating **Month**, select **Computed Columns** > **New** > **Advanced Expression**. Click Next to open the Expression Editor.
 - 4. In the Expression Editor, expand the **Functions** folder, the **Categories** folder, and then the **Date and Time folder**.
 - 5. With the Date and Time folder, locate and double-click the **MONTH** function.

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 - Select Favorites > Tables. Expand the Purchased_Products table and double-click Order_Date. It replaces <datevalue> in the Expression Editor.

```
Enter an expression:

MONTH(t1.Order_Date)
```

- 7. Click Next. In the Column Name field, enter Order_Month.
- Click Next > Finish. Order_Month appears as a new column in the Computed Columns window.
- Select New > Advanced Expression > Next to open the Expression Editor a second time.
- 10. In the Expression Editor, enter case on the first line and when on the second line. To enter the basic syntax for the CASE expression into the Expression Editor, expand Functions > Categories > Conditional. Double-click CASE Expression.

- Demonstration: Writing the CASE Expression
 - 11. With the cursor after when, select Computed Columns to expand it, and double-click Order_Month. The expression used earlier to create Order_Month is repeated here. You can enter this directly into the Expression Editor instead of creating the Order_Month column.
 - 12. Finish the expression as shown below.

```
CASE
WHEN (MONTH(t1.Order_Date)) in (12,1,2) THEN 1
WHEN (MONTH(t1.Order_Date)) in (3,4,5) THEN 2
WHEN (MONTH(t1.Order_Date)) in (6,7,8) THEN 3
WHEN (MONTH(t1.Order_Date)) in (9,10,11) THEN 4
END
```

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 - 13. After completing the expression, select **Validate** to check the syntax. Click **Close**.
 - 14. After checking the syntax, click Next and enter Financial_Quarter in the Column Name field.
 - 15. Click **Next** > **Finish** > **Close**.
 - 16. Add and arrange the following columns on the Select Data tab so that they appear in this order: Order_Date, Order_Month, Financial_Quarter, Order_ID, Product_Name, Total_Retail_Price.
 - 17. Click Run.
 - 18. Save the project.