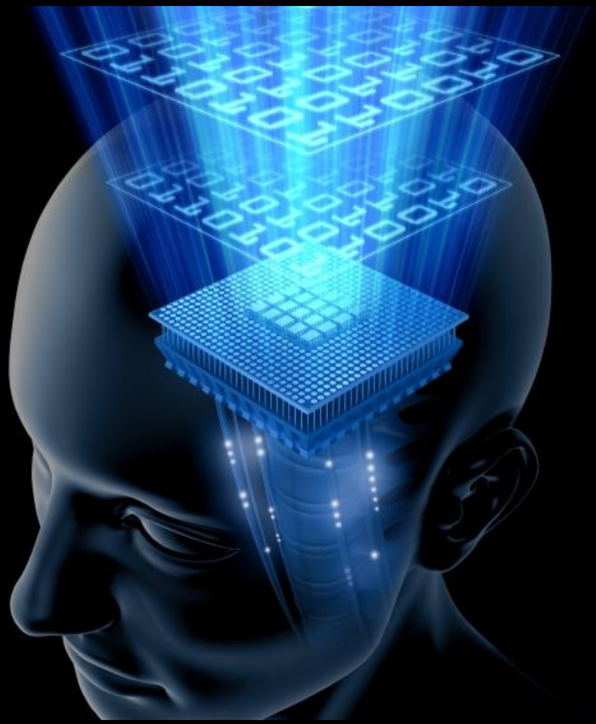
GENERAL ASSEMBLY

3 Value logic and Case statements

CASE
    WHEN expression THEN value
    ELSE
END

CREATING LABELS
LOGIC
SUBSELECT TRICK WITH COUNT



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Previously in Data Analytics

WITH
SELECT INTO

Case Statement

TRUE
FALSE
UNKNOWN

Query

Compounded computed columns

Week 1 Units	Week 2 Units	Week 3Units	Week 4 Units	Week 5Units	Week 6 Units	Week 7 Units	Week 8 Units

Period 1 Units

Period 2 Units

((Week 5 Units + Week 6 Units + Week 7 Units + Week 8 Units) – (Week 1 Units + Week 2 Units + Week 3 Units + Week 4 Units)) / (Week 1 Units + Week 2 Units + Week 3 Units + Week 4 Units) * 100

Period difference

Period 1 to Period 2 % of Difference

Expert

QUERY

IMU% AND COMPSHOP

QUERY

CASE exercise Building the basic query and the IMU%

Sell Price to Wholesaler	Net Landed Cost

Sell Price to Whol... — Net Landed ...

Wholesaler

IMU%

x 100

QUERY

CASE exercise Create the lowest competitive shop column.

IMU%	Comp Shop1	Comp Shop2	Comp Shop3

New CompShop1

If Comp Shop1 = .00 Then show 999999

Otherwise show Comp Shop1

New CompShop2

If Comp Shop2 = .00 Then show 999999

Otherwise show Comp Shop2

New CompShop3

If Comp Shop3 = .00 Then show 999999

Otherwise show Comp Shop3

QUERY

CASE exercise

Lowest comp shop between CompShop1 and CompShop2

IMU%	New CompShop1	New CompShop2	New CompShop3

If **New CompShop1** < **New CompShop2**

Then

New CompShop1

Otherwise show

New CompShop2

Lowest Comp between 1 and 2

QUERY

CASE exercise

Lowest comp shop between CompShop1 and CompShop2

IMU%	Lowest Comp between 1 and 2	New CompShop3

If **Lowest Comp between 1 and 2** < **New CompShop3**

Then

Lowest Comp between 1 and 2

Otherwise show

New CompShop3

Lowest CompShop

QUERY

CASE exercise Building the basic query and the IMU%

Sell Price to Wholesaler **IMU%** **Lowest CompShop**

$$\frac{\text{Sell Price to Wholesaler} - \textbf{Lowest CompShop}}{\text{Sell Price to Wholesaler}} \times 100$$

Sell Price to Comp % of Diff

QUERY

CASE exercise Building the basic query and the IMU%

IMU%	% of Diff High

If **IMU%** < 2 **AND** **Sell Price to Comp % of Diff** < - 5

Then **ACTION REQUIRED**

QUERY

ACTION REQUIRED	ACTION REQUIRED	ACTION REQUIRED
Order 5 of X	Research Vendor A	Retire Asset
Order 7 of Y	Pay Vendor X	Move Asset
Hold Order on B	Pay Vendor Y	Research Asset
Research Order C	Deny Vendor B	Retire Asset

Expert

```
SELECT field1, field2,
CASE
        WHEN field1 >= A THEN ‘field or expression'
END AS field3,
field4

FROM  Table1
```

Workshop

Conclusion

Case statement are a powerful way to add 3 value logic to your queries

Only go 3 deep with your nested case statements

Use CTE's to simplify anything more than 3 deep

You can use Case statements to aggregate an aggregate.

Q & A

The price of light is less than the cost of Darkness.

-Arthur C. Nielsen

EXIT TICKET

CLASS : Case Statements

QUESTION:

Describe 3 results you can get back from 3 value logic?