# Wrapping Up



Ami Levin
DATA EDUCATOR

@ami\_levin www.amilevin.com



# Course Review



**Course review** 

Take away

Feedback

**Next steps** 

**Additional resources** 

**Farewell** 



## What is T-SQL?









#### Our First SELECT

**SELECT** 5 FROM WHERE **GROUP BY** 3 HAVING ORDER BY 6 OFFSET - FETCH





00110110 01001011 10110010

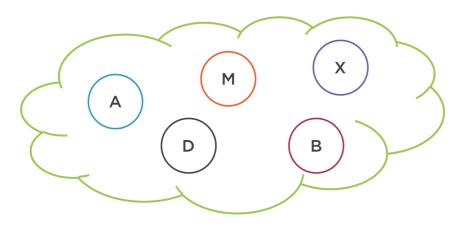


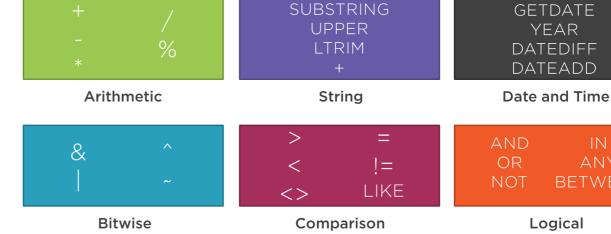
YEAR

Logical

ANY

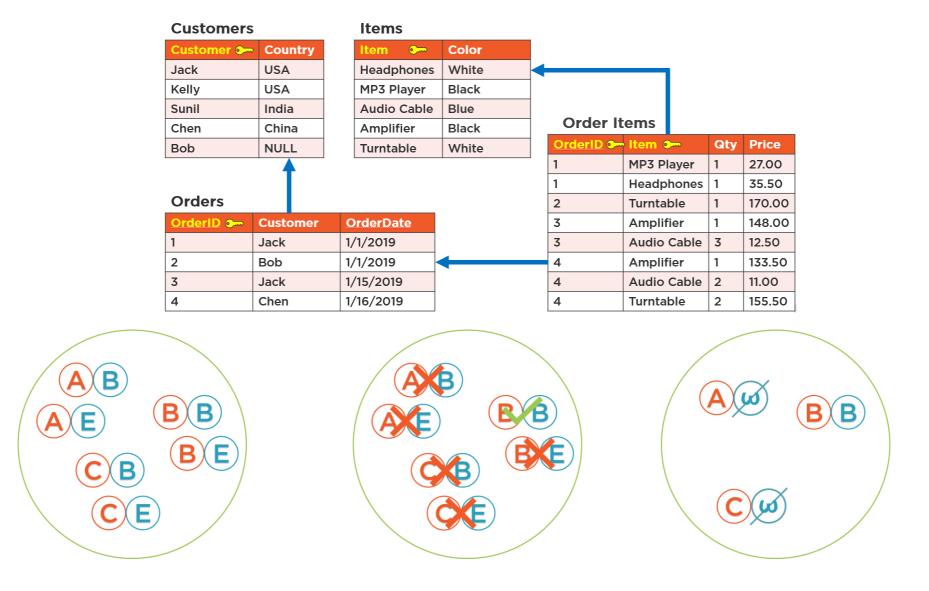
BETWEEN







#### The FROM clause



#### Filtering rows with WHERE



# Combining Rows



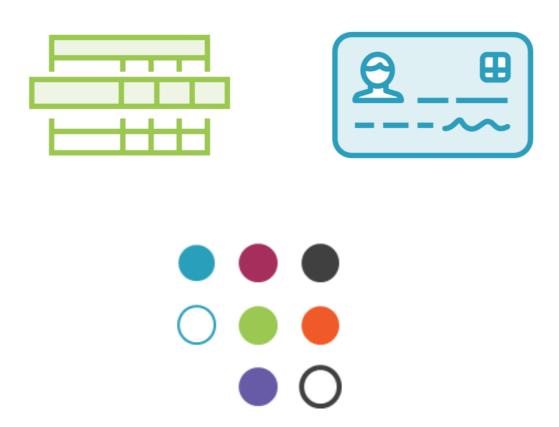
# **GROUP BY Country**

Customer	Country	Group
Jack	USA	1
Kelly		
Sunil	India	2
Chen	China	3
Bob	NULL	4





## Returning Data



```
ISNULL (X, Y)
COALESCE (X, Y, Z)
CASE
   WHEN X IS NULL
     THEN Y
   ELSE Z
END
NULLIF (X, Y)
```



#### Ordering and Paging



SELECT TOP(5) WITH TIES OrderID FROM Orders ORDER BY OrederDate DESC;

SELECT OrderID
FROM Orders
ORDER BY OrderDate DESC
OFFSET 0 ROWS
FETCH NEXT 5 ROWS ONLY;





## Takeaway



SQL is based on the relational model; you must start thinking in sets



Query execution order should become your second nature



Dealing with NULLs isn't easy, but the alternatives are far worse



Don't sweat over syntax; focus on foundations and understanding



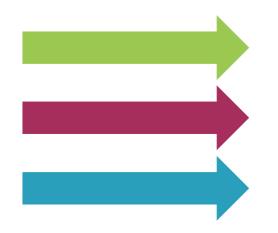
#### Feedback



#### Please help us improve

- Which parts did you like most?
- What would you have done differently?
- What parts were too short? too long?
- Additional training you would like to see

#### Next Steps



- Practice
- Practice
- Practice



- Take additional SQL training and reading
- Master the relational model
- Get involved in the SQL community

#### Additional Resources



- app.pluralsight.com/search/?q=sql%20server
- app.pluralsight.com/search/?q=SQL
- docs.microsoft.com/en-us/sql
- stackoverflow.com
- wikipedia.org

# Thank You!

www.amilevin.com

