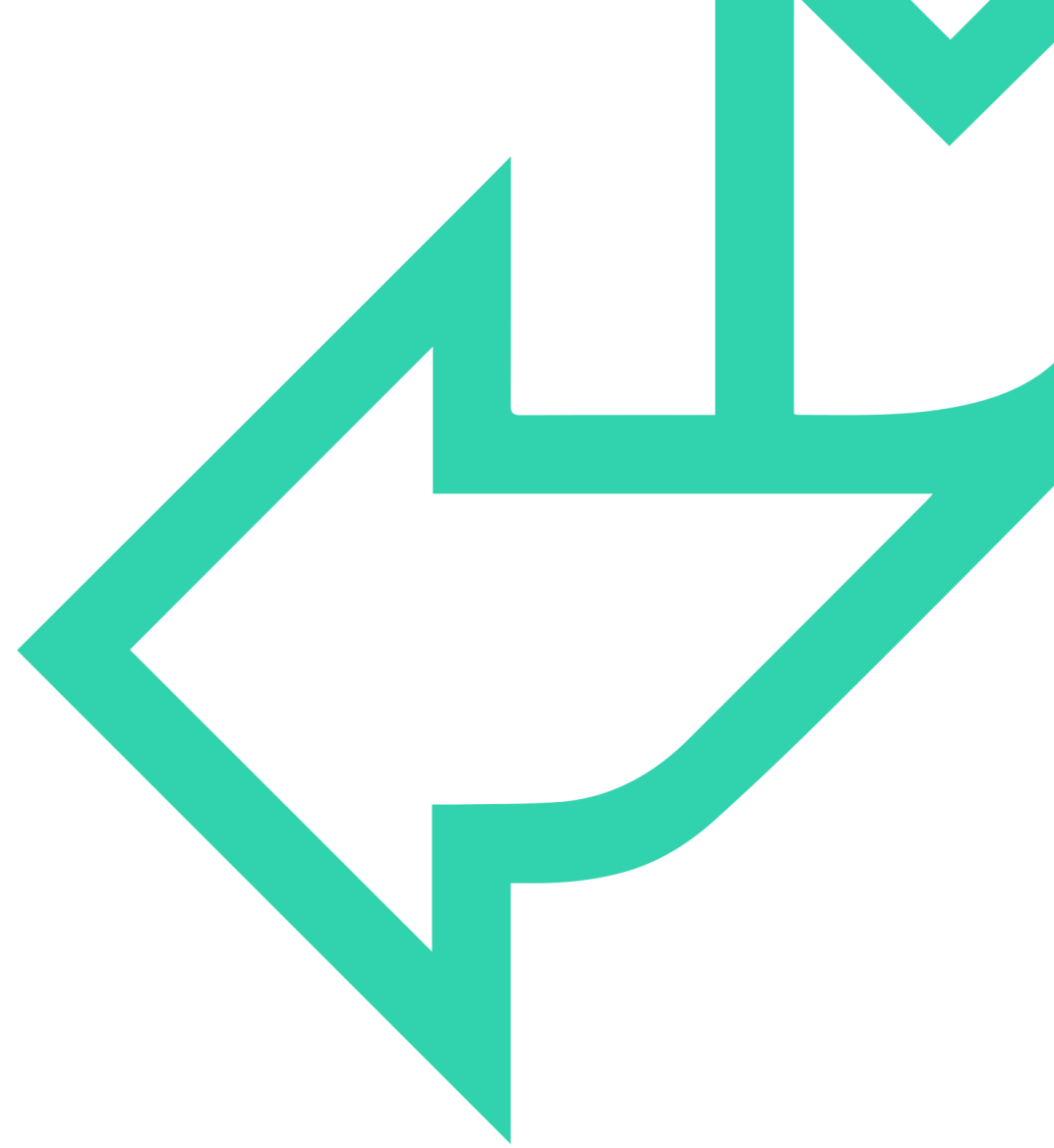




# **SQL: Sorting Rows**

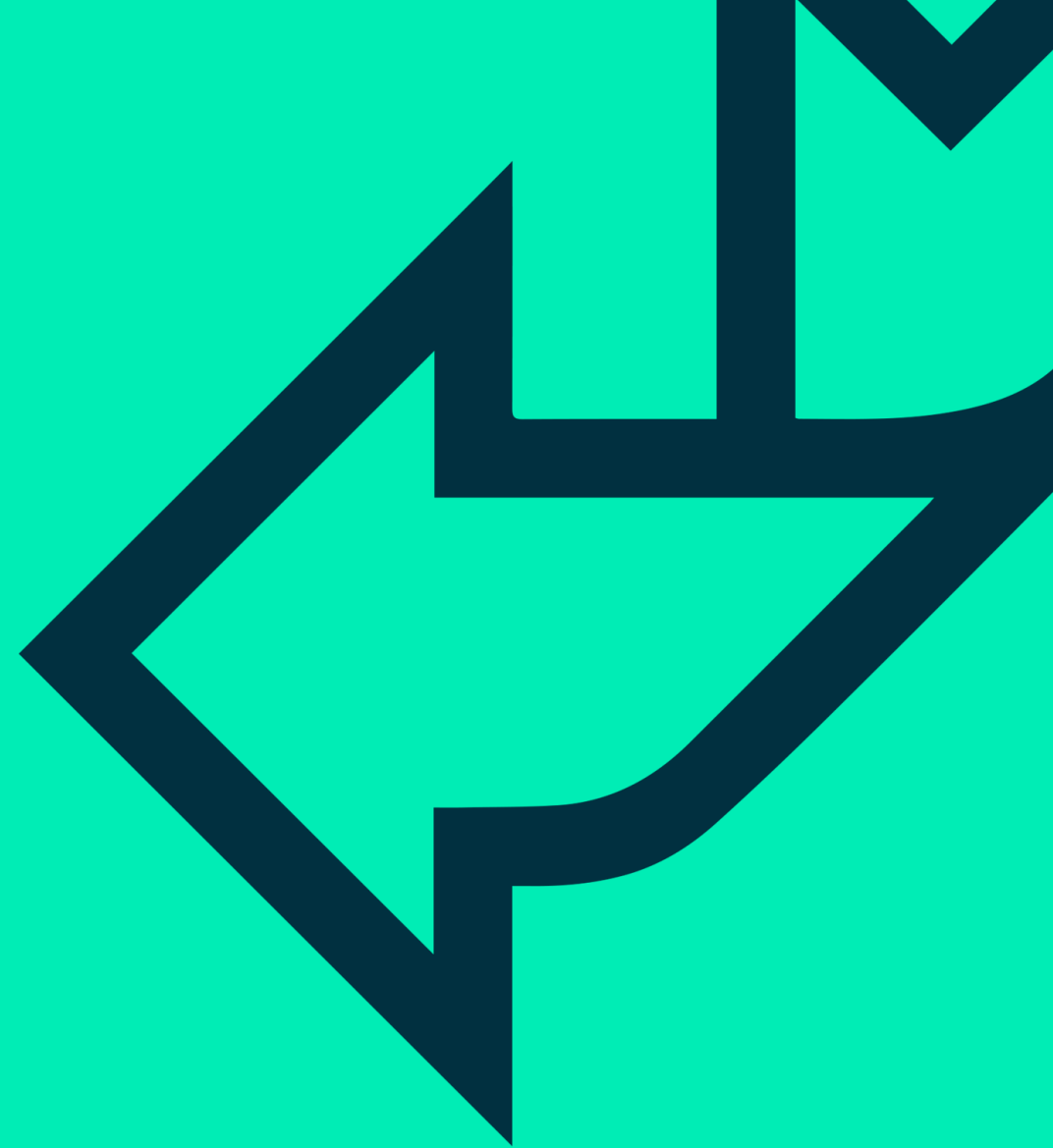




# SQL

## Lesson Objectives and Contents

- Order By
- Where and Order By with Expressions





# SELECT STATEMENT

```
SELECT <<field(s)>>  
FROM <<table(s)>>  
WHERE <<condition(s)>>  
GROUP BY <<field(s)>>  
HAVING <<condition(s)>>  
ORDER BY <<field(s)>>
```



# SELECT STATEMENT: ORDER BY

- Row ordering is done last – after all filtering and calculating.
- **ORDER BY** is the last clause in the **SELECT** statement.
  - ✓ **ASC** – ascending - Default
  - ✓ **DESC** – descending

## USE Northwind

```
SELECT ProductName, UnitPrice FROM Products  
ORDER By UnitPrice DESC
```

```
SELECT CategoryID, ProductName, UnitPrice  
FROM Products  
ORDER By CategoryID, UnitPrice DESC
```



# **SELECT STATEMENT: ORDER BY**

## **WITH EXPRESSIONS**

```
SELECT ProductID, ProductName,  
(UnitsInStock+UnitsOnOrder)*UnitPrice AS Revenue  
FROM Products
```

```
WHERE (UnitsInStock+UnitsOnOrder)*UnitPrice >  
1000
```

```
ORDER BY (UnitsInStock+UnitsOnOrder)*UnitPrice
```

```
SELECT ProductID, ProductName,  
(UnitsInStock+UnitsOnOrder)*UnitPrice AS Revenue  
FROM Products
```

```
WHERE (UnitsInStock+UnitsOnOrder)*UnitPrice >  
1000
```

```
ORDER BY Revenue
```

**Alias can be used in ORDER BY but not in  
WHERE clause.**