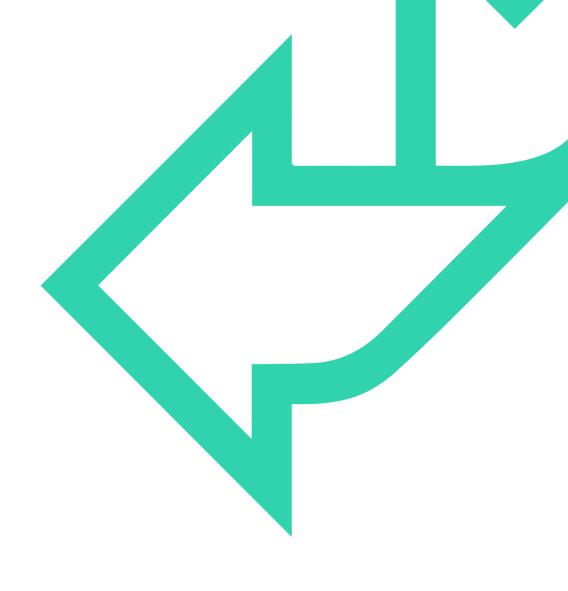


## Views and Stored Procedures





#### **Overview**



- Views
- Using views
- Stored procedures
- Using stored procedures



#### At the end of this module you will be able to:

- use a predefined view
- create a simple view
- use a predefined stored procedure

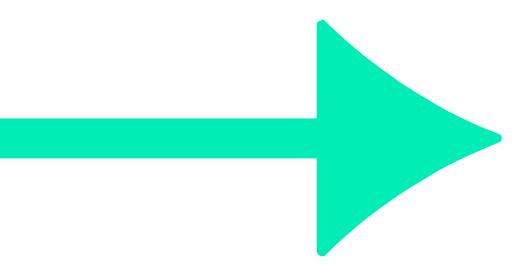
# OBJECTIVES \

# **Views**



### Views

- Stored select statements
- Act just like tables
- Benefits:
  - Reusable
  - Simplify complex queries
  - Limit access to sensitive data



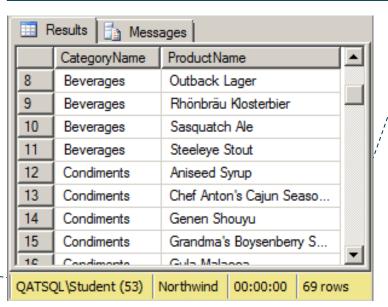
#### **Using views**



#### **Using views**

```
SELECT
  CategoryName,
  ProductName
FROM
  dbo.Products AS p
JOIN
  dbo.Categories AS c
ON
  p.CategoryID =
  c.CategoryID
WHERE
  p.Discontinued = 0
ORDER BY
  CategoryName,
  ProductName
```

```
SELECT
CategoryName,
ProductName
FROM
dbo.[Products by Category]
ORDER BY
CategoryName,
ProductName
```



#### QA Using views (2)

```
SELECT
  p.ProductID,
  p.ProductName,
  SUM(Quantity) AS TotalSales
FROM
  dbo.[Current Product List] AS p
JOIN
  dbo.[Order Details] AS od
ON
  p.ProductID = od.ProductID
GROUP BY
  p.ProductID, p.ProductName
```

| Results Messages Messages |           |                           |            |  |
|---------------------------|-----------|---------------------------|------------|--|
|                           | ProductID | ProductName               | TotalSales |  |
| 1                         | 23        | Tunnbröd                  | 580        |  |
| 2                         | 46        | Spegesild                 | 548        |  |
| 3                         | 69        | Gudbrandsdalsost          | 714        |  |
| 4                         | 75        | Rhönbräu Klosterbier      | 1155       |  |
| 5                         | 15        | Genen Shouyu              | 122        |  |
| 6                         | 3         | Aniseed Syrup             | 328        |  |
| 7                         | 52        | Filo Mix                  | 500        |  |
| 8                         | 72        | Mozzarella di Giovanni    | 806        |  |
| ۵                         | l cc      | Lautainen Hat Caland Olen | າາດ        |  |

# **Stored procedures**



### Stored procedures

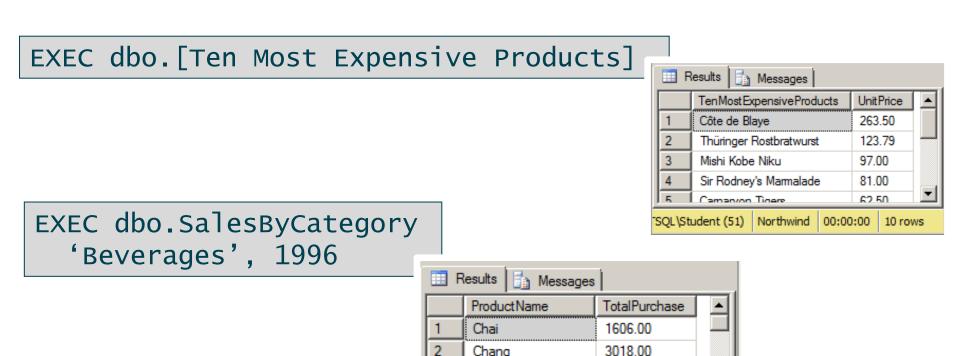
- Set of SQL statements stored in the database
- Can accept parameters
- Can return records
- Can modify the database
- Can perform complex logic

## Using stored procedures



#### Using stored procedures

- **EXECUTE** <<pre>cedure-name>>
- **EXEC** <<pre>cram{1}, ..., param{2}



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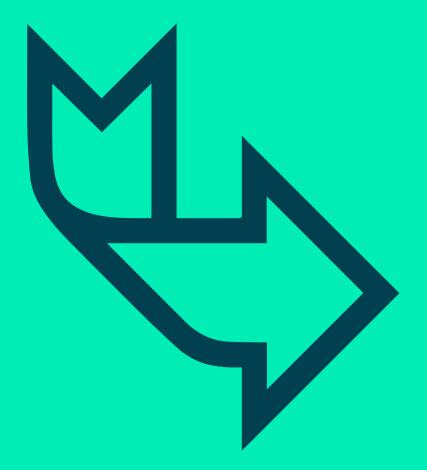
Côte de Blave

QL\Student (51) Northwind

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#### **HANDS-ON LAB**

- **Using views**
- Creating views
- Using stored procedures



#### Review

- Views
- Using views
- Stored procedures
- Using stored procedures

