

The logo consists of the word "ondia" in a lowercase sans-serif font. The letters are primarily a medium purple color. The letter "o" features a unique design where its right side is blue, and it overlaps the "n" and "d". The "n" and "d" also have blue sections on their right sides, which overlap the "d" and the "i" respectively. The "i" has a small teal-colored hook at the top. The "a" is a standard purple shape.

ondia



# Relational DB & SQL

Session 12





# SQL Programming





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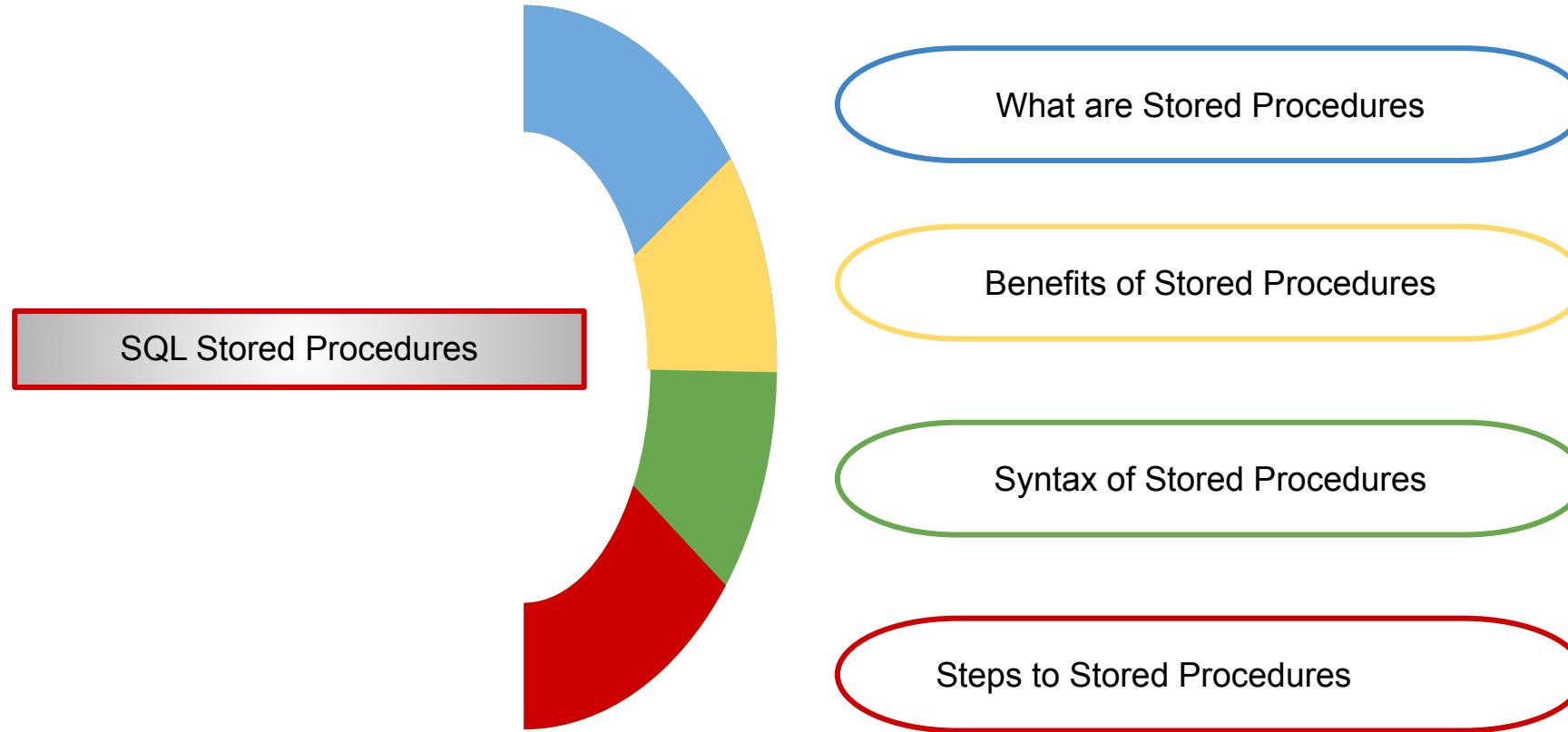
- ▶ Stored Procedures
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# Stored Procedures



# Stored Procedures





# Stored Procedures

## What are Stored Procedures

- ❑ SQL Server stored procedure is a batch of statements grouped as a logical unit and stored in the database.
- ❑ The stored procedure accepts the parameters and executes the T-SQL statements in the procedure, returns the result set if any.

# Stored Procedures



## Benefits of Stored Procedures

Performance

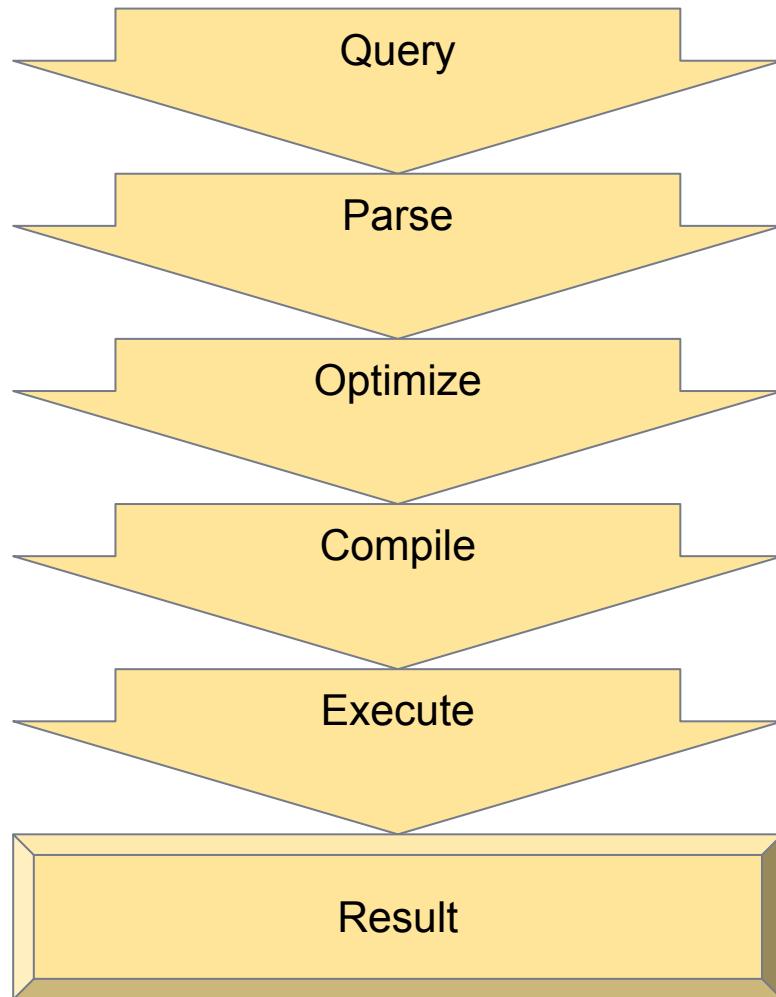
Maintainability

Productivity and Easy to Use

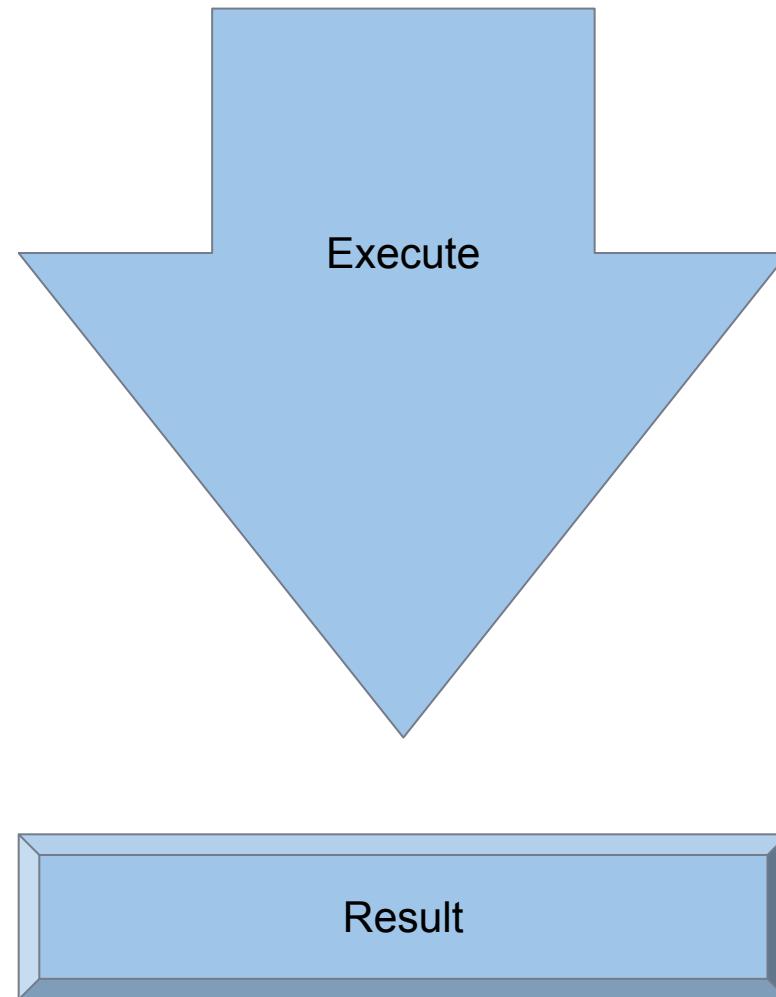
Security



## AD-HOC QUERY



## STORED PROCEDURE



# Stored Procedures



## Syntax of Stored Procedures

Syntax:

```
CREATE PROCEDURE procedure_name  
AS  
sql_statement  
GO;
```

Execution:

```
EXEC procedure_name;
```



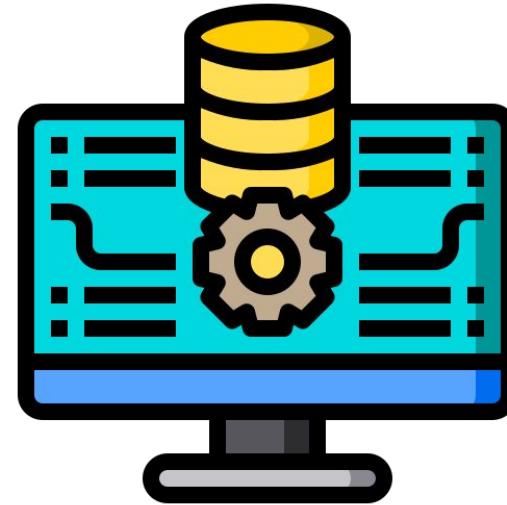
Steps to Stored Procedures

## Query Time





# User Valued Functions



# Functions



## Table-Valued Functions

Syntax:

```
CREATE FUNCTION function_name (@parameter  
type)  
RETURNS TABLE  
AS  
Return sql_statement;
```

## Scalar-Valued Functions

Syntax:

```
CREATE FUNCTION function_name (@parameter  
type)  
RETURNS type  
AS  
BEGIN  
    sql_statement  
RETURN value  
END ;
```

# THANKS!

Any questions?

