



Sets

empid	lastname	firstna	title	titleofcourt	birthdate
1	Davis	Sara	CEO	Ms.	1958-12-08 00:00:00.000
2	Funk	Don	Vice President, Sales	Dr.	1962-02-19 00:00:00.000
3	Lew	Judy	Sales Manager	Ms.	1973-08-30 00:00:00.000
4	Peled	Yael	Sales Representative	Mrs.	1947-09-19 00:00:00.000
5	Buck	Sven	Sales Manager	Mr.	1965-03-04 00:00:00.000

What does the binding step resolve?

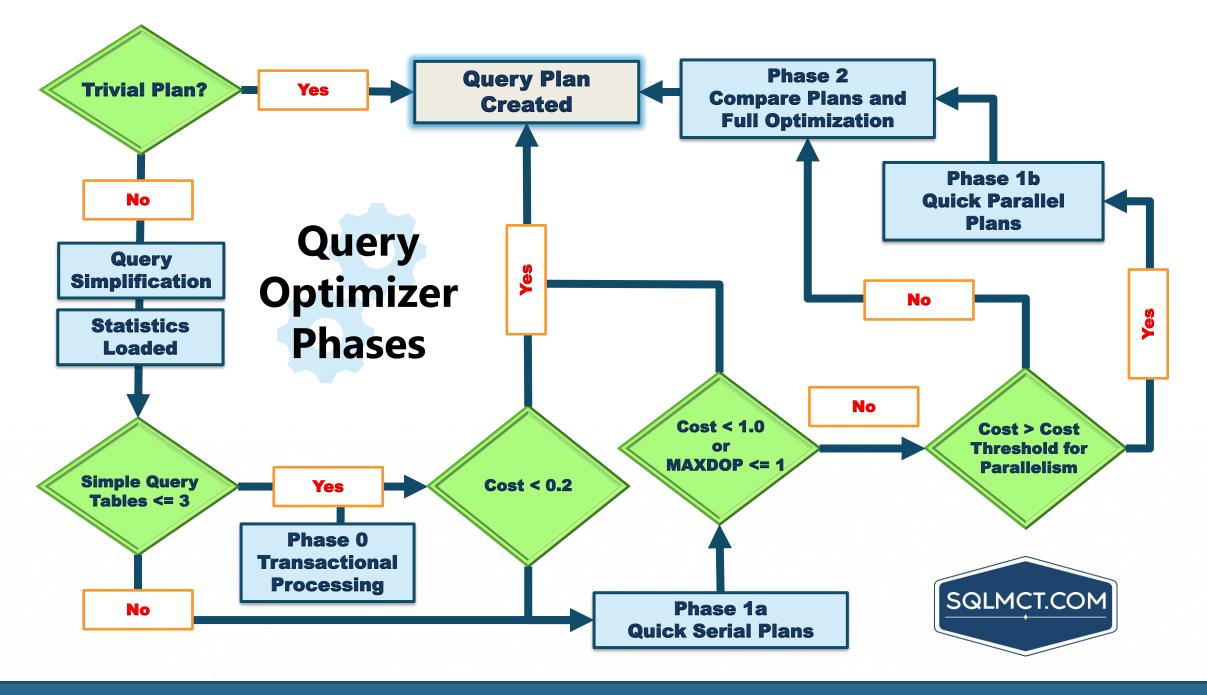
Existing cached plans

User permissions are checked

Object names (Tables, Views, Columns, etc.) to see if they exist.

Aliases of columns and tables

Data types and performs implicit data type conversions.



Query Simplification phases

Constant Folding: Expressions with constant values are reduced

- Quantity = 2 + 3 becomes Quantity = 5
- 10 < 20 becomes **True**

Contradiction Detection: Removes criteria that doesn't match table constraints

- Constraint: Age > 18
- Contradiction: WHERE Age < 18

Domain Simplification: Reduces complex ranges to simple ranges

- Complex range: ID > 10 and ID < 20 or ID > 30 and < 50
- Simplified range: ID > 10 and < 50

Join Simplification: Removes redundant joins that are not necessary

Predicate Pushdown: Perform calculations only on rows returned