Stored Routines

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Introduction to Stored Routines

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routine *(in a context other than computer science)*

a usual, fixed action, or series of actions, repeated periodically

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```
SELECT
    emp_no, MAX(from_date) AS from_date, MAX(to_date)
FROM
    dept_emp
GROUP BY emp_no;
```

query

emp_no	from_date	to_date
10001	1986-06-26	9999-01-01
10002	1996-08-03	9999-01-01
10003	1995-12-03	9999-01-01
10004	1986-12-01	9
10005	1989-09-12	9

output

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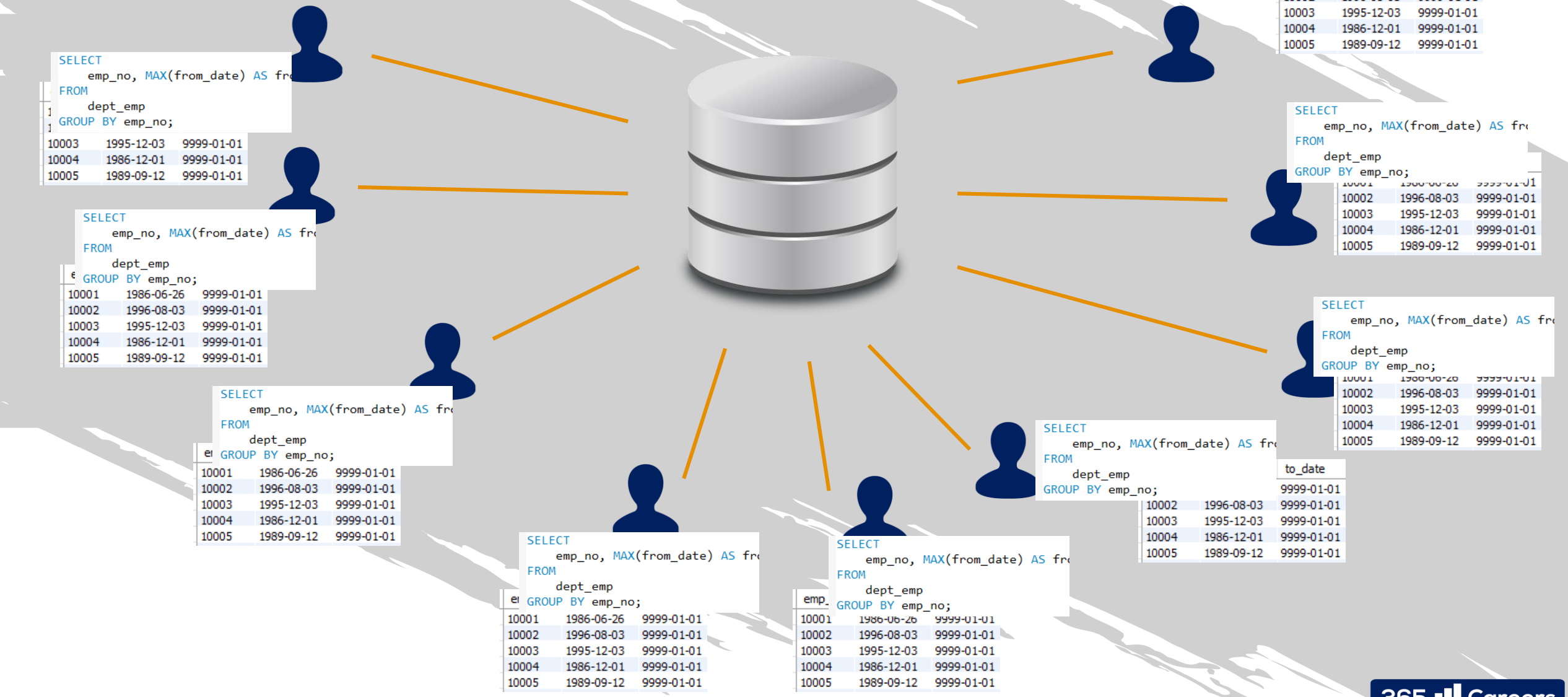

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stored routine

an SQL statement, or a set of SQL statements, that can be stored on the database server

- whenever a user needs to run the query in question, they can *call*, *reference*, or *invoke* the routine

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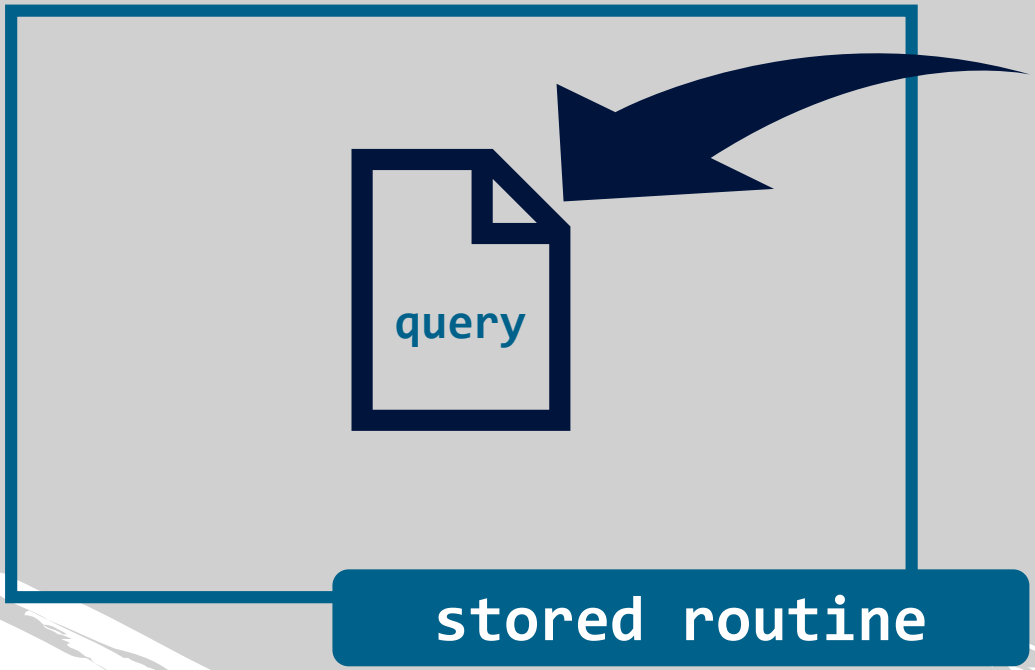

algorithm

1) *checks all monthly sales generated throughout a calendar year*
2) *returns the lowest of these values*

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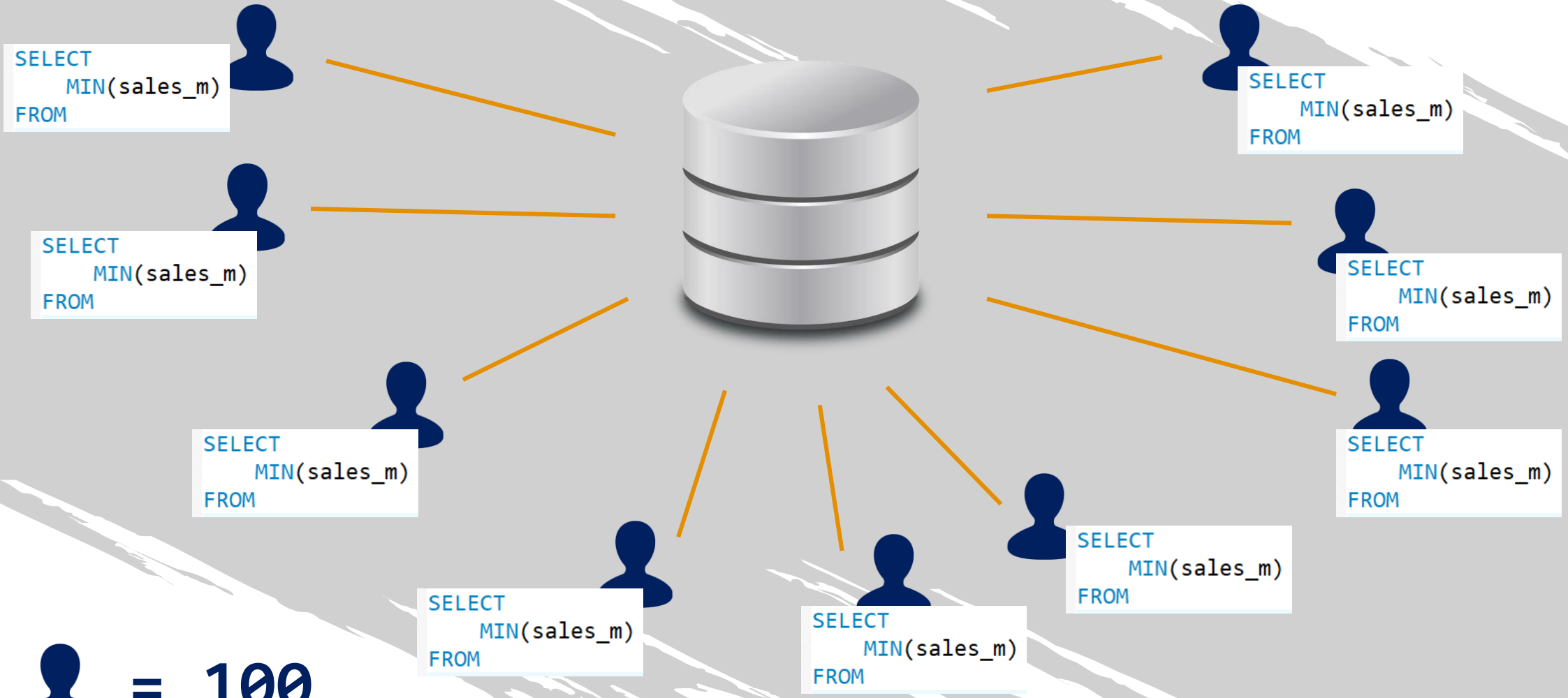

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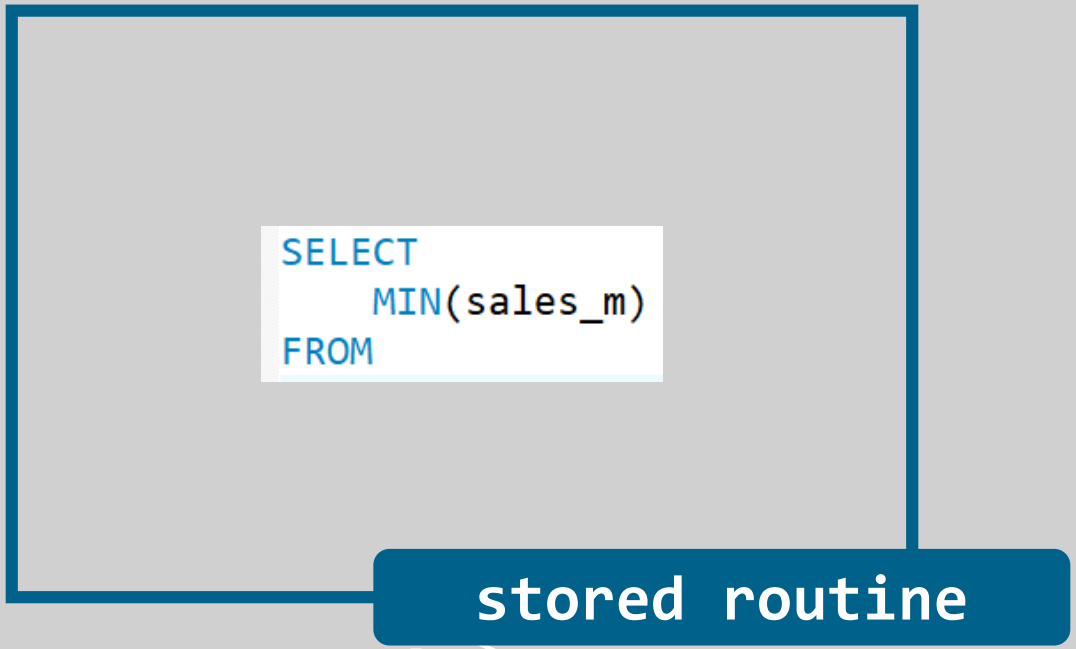

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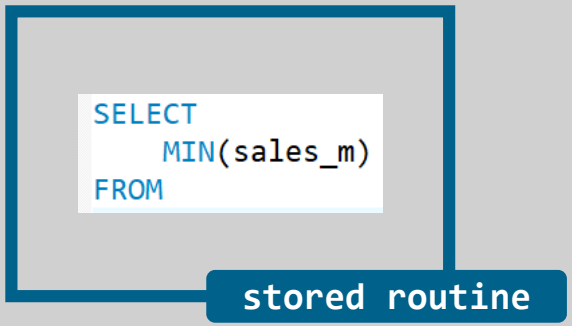

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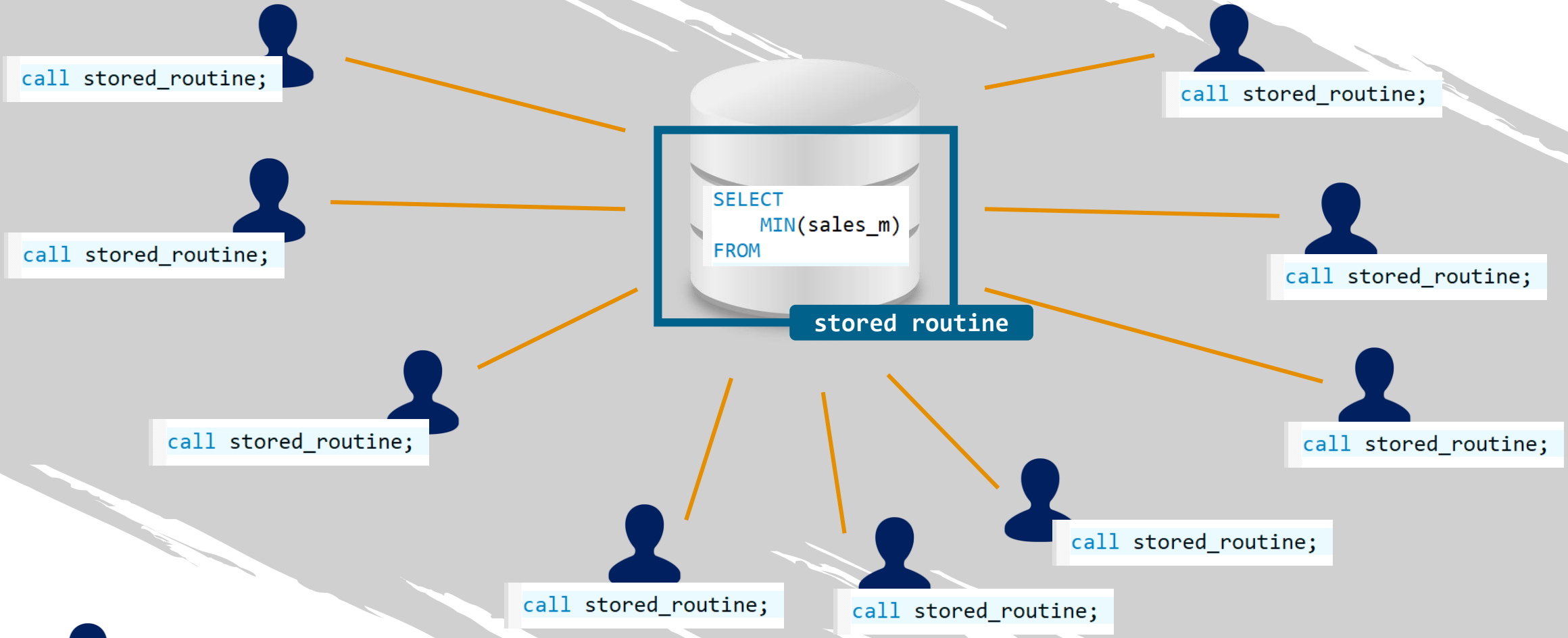

= 100 - this routine can bring the desired result multiple times

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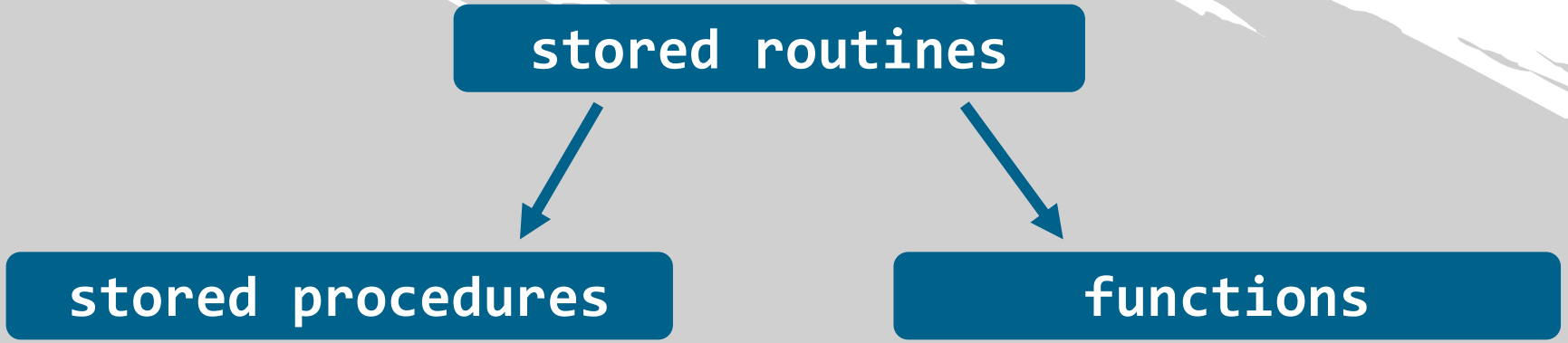

= procedures

= user-defined functions

≠ *built-in functions*

(aggregate functions, datetime functions)

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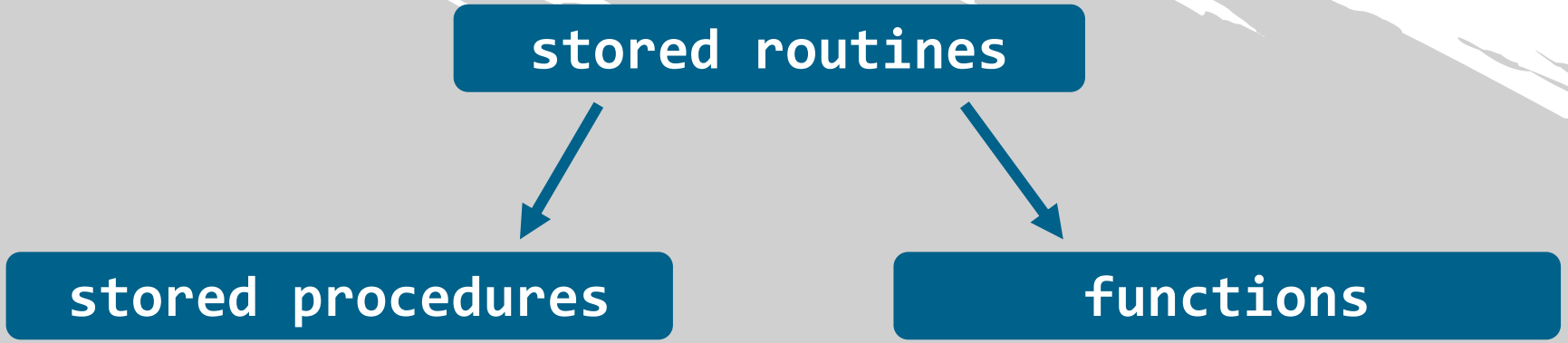

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