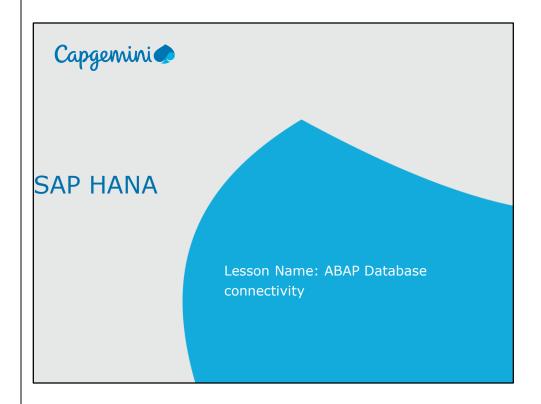
Instructor Notes:

Add instructor notes here.



Instructor Notes:

Add instructor notes here.

Lesson Objectives



After completing this lesson, participants will be able to -

- Understand ADBC
- Use ADBC to execute Native SQL statements

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Instructor Notes:

ADBC



- ADBC stands for ABAP Database Connectivity
- ADBC is an object based API
- It is used in ABAP applications where SAP HANA is installed as a secondary database side-by-side with the ABAP system.
- For such side-by-side systems, it is recommended to use ADBC API.
- It is used for native SQL calls in ABAP.
- As an API, it allows for the determination of where native SQL calls are used.
- It also supports exception handling.

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Instructor Notes:

Business Requirement

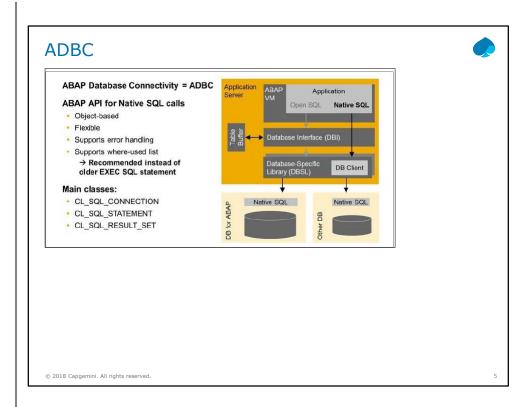


ADBC is flexible, object-oriented, and not difficult to use, as only two-three main classes are relevant in most cases

- It allows native SQL access providing
 - Flexibility
 - Where used list
 - Error Handling
- Main Classes are
 - CL_SQL_CONNECTION
 - ❖ CL_SQL_STATEMENT
 - CL_SQL_RESULT_SET

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Instructor Notes:



Instructor Notes:

ADBC



Sequence for Reading Data with ADBC

1.	Choose database connection (only when accessing secondary DB)	Call method get_connection() of class CL_SQL_CONNECTION
2.	Create a statement object	Instantiation of class CL_SQL_STATEMENT
3.	Fill string variable with SQL syntax	Use either CONCATENATE or string templates/string expressions
4.	Issue native SQL call	Call method execute_query() of class CL_SQL_STATEMENT
5.	Assign target variable for result set	Call method set_param() or set_param_table() of class CL_SQL_RESULT_SET
6.	Retrieve result set	Call method next_package() of class CL_SQL_RESULT_SET
7.	Close query and release resources	Method close() of class CL_SQL_RESULT_SET

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Instructor Notes:

ADBC



In short, the steps in the previous slide can be summarized as below

- Choose database connection
 - cl_sql_connection=>get_connection
- Instantiate the statement object
- Construct the SQL (check with SQL Console for syntax)
- Issue Native SQL Call
- Assign target variable for result set
- Retrieve Result set
- Close the query and release resources

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Instructor Notes:

Disadvantages of ADBC



No hashed or sorted tables allowed as target

Use standard table

No automatic client handling

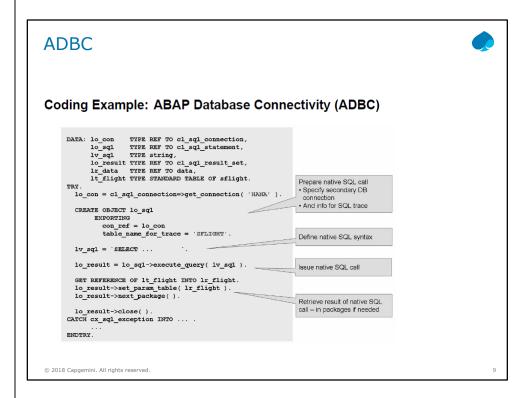
Specify MANDT in where condition

No guaranteed release of allocated resources on DB

Close the query

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Instructor Notes:



Instructor Notes:

Add instructor notes here.

Summary



In this lesson, you have learnt:

How to use ADBC to execute Native SQL statements

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Add the notes here.

Instructor Notes:

Add instructor notes here.

Review Question



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Add the notes here.

Instructor Notes:

