

Supply Chain Management

**Learning Reference Guide – Oracle SQL,
PL/SQL, Unix shell scripting, Power Bi, SCM**

Version v1.0

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Learning Objective: What do you gain from this program?

- To understand the components of Supply Chain Management (Procurement, Planning and Execution). Analyse impact of various factors and develop strategies to improve efficiency in Supply Chain.
- To understand what is DBMS, how to write SQL statements, Understand Entity Relationship Diagram and Normalization
- Basic understanding of Unix scripts and it's use in day-to-day life
- What is Power BI and it's use in combining data from multiple sources, analyse and visualize information and preparing reports.

Recommended Week-wise Learning Plan

SESSION 1	SESSION 2	SESSION 3
5hrs (SME Connect)	5hrs (SME Connect)	5hrs (SME Connect)
Basics of Supply Chain Management, Introduction to Warehouse Management (BY/MA) + Case Study	Introduction to Planning (Kinaxis/o9) + Case Study	Introduction to Procurement (Coupa/Icertis) + Case Study

Students should complete refresher before SME Connect

Every day 5 hours connect with SME - Subject Matter Expert

Session 1 - Basics of Supply Chain Management, Introduction to Warehouse Management (BY/MA) + Case Study

Session 2 - Introduction to Planning (Kinaxis/o9) + Case Study, Introduction to Procurement (Coupa/Icertis) + Case Study

Session 3 - Introduction to Procurement (Coupa/Icertis) + Case Study

Expectation from SME connect sessions.

- SME connect sessions should be an interactive session and expected to add business Flavors/ real time project scenarios.
- Recap or doubt clarification session on a particular topic.
- Encourage learner's interaction and idea sharing.
- Identify and share areas of improvement and strength of the learners.
- Knowledge level checks to know the learners understanding.

For the foundational skills learning program you will need the following software and tools:

Skill Name	Software Name	Online code editor
Oracle SQL	Oracle SQL Developer	https://onecompiler.com/oracle
Oracle PLSQL	Oracle Database 21c Express Edition	PL/SQL Online Editor & Compiler (onecompiler.com) https://livesql.oracle.com/apex/f?p=590:1000

Session 1 – Oracle SQL, PL SQL (25 hours)

Below learning introduces Oracle SQL, a popular relational database management system known for its scalability and ease of use. You'll learn how to set up and configure Oracle SQL, create tables, insert, and retrieve data, and perform basic queries. Advanced topics such as joins, indexing, and normalization will also be covered.

Topic: Oracle SQL	
Introduction to ANSI SQL	https://fastercapital.com/content/ANSI-SQL--The-Language-for-Relational-Database-Management-Systems.html
Introduction to Oracle SQL	https://docs.oracle.com/en/database/oracle/oracle-database/19/sqlrf/Introduction-to-Oracle-SQL.html
Creating tables	https://docs.oracle.com/en/database/oracle/oracle-database/21/sqlrf/CREATE-TABLE.html
Modifying tables	https://docs.oracle.com/en/database/oracle/oracle-database/21/sqlrf/ALTER-TABLE.html
Constraints	https://docs.oracle.com/cd/B13789_01/server.101/b10759/clauses002.htm
Data Retrieval with SELECT Statement	https://docs.oracle.com/en/database/oracle/oracle-database/23/sqlrf/SELECT.html
Aggregate Functions and Grouping	https://docs.oracle.com/en/database/oracle/oracle-database/18/sqlrf/Aggregate-Functions.html
Joins	https://docs.oracle.com/en/database/oracle/oracle-database/19/sqlrf/Joins.html
Subqueries	https://docs.oracle.com/en/database/oracle/oracle-database/19/sqlrf/Using-Subqueries.html
Indexes	https://docs.oracle.com/en/database/oracle/oracle-database/12.2/admin/managing-indexes.html#GUID-1C31FFD6-B826-4F13-9452-7C3B8B28F677
Basic Blocks	https://www.tutorialspoint.com/plsql/index.htm https://www.tutorialspoint.com/plsql/plsql_overview.htm https://www.geeksforgeeks.org/blocks-in-pl-sql/ https://www.oracletutorial.com/plsql-tutorial/plsql-anonymous-block/ https://www.tutorialspoint.com/plsql/plsql_basic_syntax.htm https://www.tutorialspoint.com/plsql/plsql_data_types.htm https://www.tutorialspoint.com/plsql/plsql_operators.htm
Statements	https://www.tutorialspoint.com/plsql/plsql_conditional_control.htm https://www.tutorialspoint.com/plsql/plsql_loops.htm
Procedures, Functions, Packages	https://www.tutorialspoint.com/plsql/plsql_procedures.htm https://www.tutorialspoint.com/plsql/plsql_functions.htm https://www.tutorialspoint.com/plsql/plsql_packages.htm
Exception	https://www.tutorialspoint.com/plsql/plsql_exceptions.htm https://docs.oracle.com/database/timesten-18.1/TTPLS/exceptions.htm

Cursors and Triggers	https://www.tutorialspoint.com/plsql/plsql_cursors.htm https://www.geeksforgeeks.org/plsql-triggers/ https://www.tutorialspoint.com/plsql/plsql_triggers.htm https://www.geeksforgeeks.org/plsql-statement-level-triggers/?ref=ml_lbp https://www.geeksforgeeks.org/difference-between-row-level-and-statement-level-triggers/ https://www.guru99.com/triggers-pl-sql.html https://docs.oracle.com/cd/B13789_01/server.101/b10759/statements_4001.htm
Composite Datatypes & Dynamic SQL	https://www.geeksforgeeks.org/plsql-records/ https://www.tutorialspoint.com/plsql/plsql_collections.htm https://www.geeksforgeeks.org/plsql-nested-table/ https://www.geeksforgeeks.org/plsql-varray/ https://blogs.oracle.com/connect/post/bulk-processing-with-bulk-collect-and-forall
MySQL	https://www.youtube.com/watch?v=WmGgxTpGs_8&list=PL9ooVrP1hQOGEcN1oA2iXcWFBTRYUxzQG Go thru videos 1-22

Check your understanding

[Oracle SQL Quiz](#)

[PLSQL Quiz](#)

[PL/SQL Quiz](#)

Session 2 – ABCs of Supply Chain (25 hours)

This course offers a comprehensive exploration of supply chain management principles and practices. You'll delve into the intricacies of designing, planning, and executing efficient and effective supply chains.

Topic: Supply Chain	
ABCs of Supply Chain	https://onlinecourses.swayam2.ac.in/imb25_mg64/preview
Supply Chain Management	https://onlinecourses.swayam2.ac.in/cec25_mg01/preview

Session 3 – Unix Shell Scripts and Power Bi (5.5 hours)

This course you will learn Unix Shell Scripts and the Power BI.

Topic: Unix and Power Bi	
Unix Shell scripts	https://www.youtube.com/watch?v=WopSyyceYiU
Power BI	https://www.youtube.com/watch?v=3u7MQz1EyPY

Optional Learning

Below Java and Python courses are optional learning.

Topic: Java and Python	
Java	https://onlinecourses.nptel.ac.in/noc25_cs110/preview
Python	https://onlinecourses.swayam2.ac.in/cec25_ma18/preview

Note - These are curated open-source learning references. Any changes that's happen to this content would be under the sole discretion of the website.