Car Manufacturing Unit – Raising PO

1. OBJECTIVES:

On completion of the case study the participant should be ability to:

- Connectivity with Oracle database
- Apply Transaction management with database

2. PRE-REQUISITES

- Database Programming- Oracle SQL, PL/SQL

3. SKILLS/CONCEPTS

- Implementation and Integration skills to solve this case

4. DURATION IN HOURS

- 3 HRS

5. SCENARIO

Eagle, one of the major car manufacturers of South Africa produces different models of cars. (Assume only 3 different models for this scenario). The assembly unit gets the following products from its Internal Units. Products required in assembling a car (1-Engine, 1-Body, 3-Seats, 5-Wheels).

-	Engine	from Unit-1	(Different per different Models)
-	Body	from Unit-2	(Different per different models)
-	Internal Seats	from Unit-3	(Driver seat, Front non-driver seat, Rear seat)
-	Wheels	from Unit-4	(Common type for all models)

You need to raise required Purchase Orders whenever the stock goes below Re-Order level.

- Identify the tables, attributes and define them with relations
- Write the DB script to maintain above process.
- Implement this in the form of Procedures and functions, and Triggers.

6. DELIVARABLES

a. Normalized Tables(up to 3NF)
b. Table definitions with Relationships
c. Applying Integrity constraints
d. Defining the re-usable components
e. Handling suitable exceptions
f. Implement the solution with suitable Packages, Procedures, Functions, Cursors etc
g. Implementing the Database triggers