

SQL IP Session - Assignments

(Integration Engineer)

Assignment 2: Advanced SQL Challenge – Sales & Products Database

Objective

Practice WINDOW Functions, Complex JOINS, Subqueries, and Stored Procedures.

Task 1 – Create Tables

- **Products** (ProductID, ProductName, Category, Price)
- **Sales** (SaleID, ProductID, SaleDate, Quantity, TotalAmount)
- **Category** (CategoryID, CategoryName)

Task 2 – Insert Sample Data

Insert at least **20 products, 30 sales records, and 5 categories**.

Task 3 – Complex Queries

1. List products along with total quantity sold and total sales amount.
2. Find top 3 products with highest sales in the last month.
3. Show cumulative sales amount over time using WINDOW function.
4. Find the rank of each product based on total sales amount.
5. Use a subquery to list products whose sales are above average sales.

Task 4 – Stored Procedure

Create a stored procedure that returns total sales for a given CategoryID and date range.

->Deliverables

- SQL scripts to create tables and insert data
- Complex SQL queries solving the tasks above
- Stored Procedure code

Note: Share your completed assignment to kalaiselvia.consultant@tnsif.org