

Refer to Lab 1 (Problem 1), Lab 4 (Problems 3 and 4), and Lab 5 (Problems 1 to 4). You are required to design and implement a **Role-Based Access Control (RBAC)** mechanism for the Pine Valley Furniture Company (PVFC) interfaces developed in the previous labs.

Problem 1) Refer to Lab 1 (Problem 1), Lab 4 (Problems 3 and 4) and Lab 5 (Problems 1 to 4). You are required to design and implement Role Base Access Control mechanism for Pine Valley Furniture Company interfaces developed so far in above mentioned problems.

(a) As an initial step enhance the schema of PVFC database. Write enhanced schema below.

(b) Enhance the solutions for previous problems to utilize the modified schema. Incorporate logic to restrict access to specific interfaces based on the logged-in user's role.

(c) Develop test cases to verify that the RBAC mechanism functions correctly