**Implementing Oracle Fine-Grained Auditing (FGA)**

**TASK:**

In a previous project, you have created DBSEC user and CUSTOMER table. In this project, you will implement a FGA case. However, the CUSTOMER table will be the one you created on the previous project. Your mission is to design and implement the following auditing functions on the CUSTOMER table.

1. Track all "SELECT" activities on the CUSTOMER table, including database user, operating system user, and time when the operation is performed.

2. Track the changes when CREDIT\_LIMIT is set to a value above $5,000.

3. Track the CUSTOMER table when a customer record was deleted.

You need to generate one SQL script file to perform all the following tasks:

1. Add a policy to implement audit task 1 (SELECT). The policy will be named as AUDIT\_POLICY\_1\_SELECT.

2. Add a policy to implement audit task 2 (CREDIT\_LIMIT). The policy will be named as AUDIT\_POLICY\_2\_CREDIT.

3. Add a policy to implement audit task 3 (DELETE on CUSTOMER table). The policy will be named as AUDIT\_POLICY\_3\_DELETE.

4. Turn on the audit function.

5. Connect to user DBSEC, and perform the following DML functions for testing purpose:

SELECT CUSTOMER\_ID, FIRST\_NAME,LAST\_NAME,CREDIT\_LIMIT FROM customer WHERE CUSTOMER\_ID=201340; UPDATE customer SET CREDIT\_LIMIT=2500000 WHERE CUSTOMER\_ID=201340; DELETE from CUSTOMER WHERE CUSTOMER\_ID=201340;

6. Show the audit trail including when and who has used/modified the CUSTOMER table.

7. Roll back the above change.