◆ STEP 5: Reusable Package: AppUtility
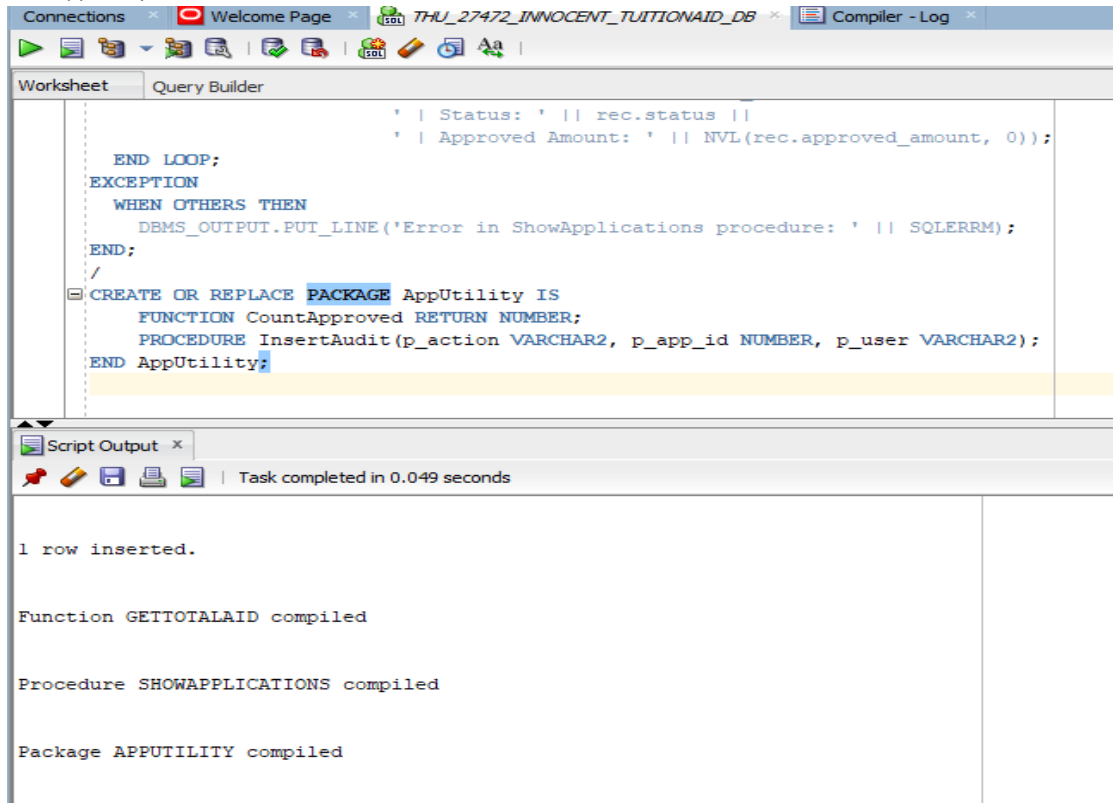
🧱 Package Specification:

CREATE OR REPLACE PACKAGE AppUtility IS

  FUNCTION CountApproved RETURN NUMBER;

  PROCEDURE InsertAudit(p_action VARCHAR2, p_app_id NUMBER, p_user VARCHAR2);

END AppUtility;

🧱 Package Body:

CREATE OR REPLACE PACKAGE BODY AppUtility IS

  FUNCTION CountApproved RETURN NUMBER IS

    cnt NUMBER;

  BEGIN

    SELECT COUNT(*) INTO cnt FROM Application WHERE status = 'Approved';

    RETURN cnt;

  END;

  PROCEDURE InsertAudit(p_action VARCHAR2, p_app_id NUMBER, p_user VARCHAR2) IS

```
BEGIN

   INSERT INTO Application_Log (action_performed, application_id, performed_by)

   VALUES (p_action, p_app_id, p_user);

EXCEPTION

   WHEN OTHERS THEN

      DBMS_OUTPUT.PUT_LINE('Audit failed.');

   END;

END AppUtility;
```
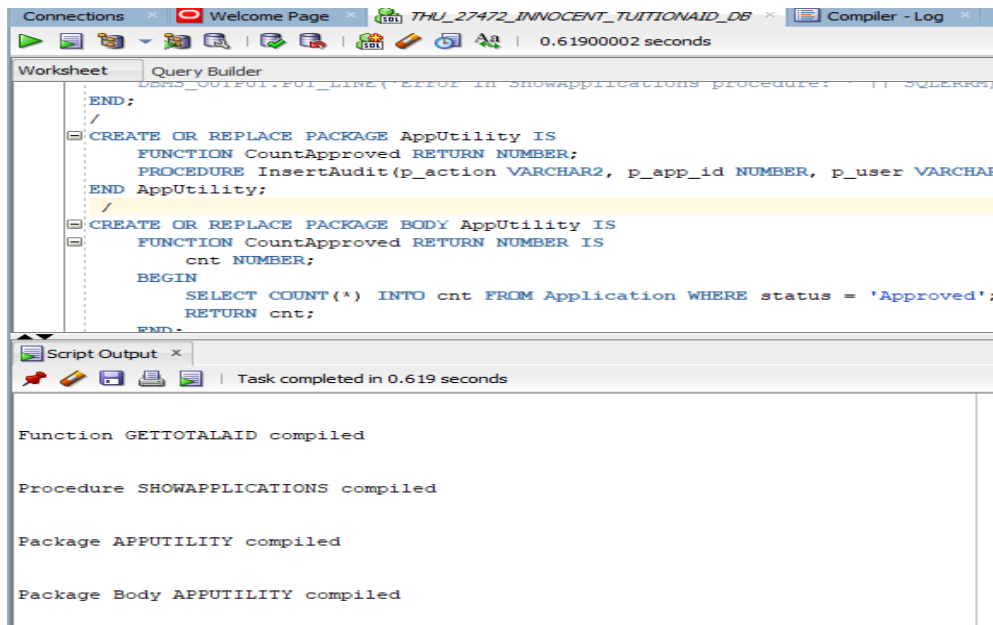

🧠 What It Does:

This package groups:

- A function to **count approved applications**

- A procedure to **log actions**, with error handling

✅ Why It Matters:

- **Modularization**: Easier to maintain and reuse logic

- **Security**: Package privileges can be managed better

- **Clean code**: Centralized logic for data operations