

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;

```
Worksheet
        Query Builder
                          ' | Status: ' || rec.status ||
                          ' | Approved Amount: ' || NVL(rec.approved_amount, 0));
      END LOOP;
    EXCEPTION
      WHEN OTHERS THEN
        DBMS_OUTPUT.PUT_LINE('Error in ShowApplications procedure: ' || SQLERRM);
    END:
   CREATE OR REPLACE PACKAGE AppUtility IS
        FUNCTION CountApproved RETURN NUMBER;
        PROCEDURE InsertAudit(p_action VARCHAR2, p_app_id NUMBER, p_user VARCHAR2);
    END AppUtility;
Script Output X
📌 🧼 🔡 遏 | Task completed in 0.049 seconds
1 row inserted.
Function GETTOTALAID compiled
Procedure SHOWAPPLICATIONS compiled
Package APPUTILITY compiled
```

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;

```
BEGIN
```

```
INSERT INTO Application_Log (action_performed, application_id, performed_by)

VALUES (p_action, p_app_id, p_user);

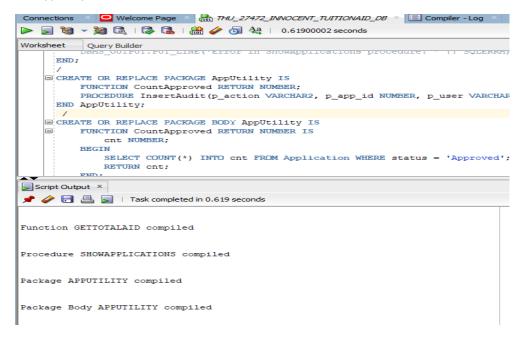
EXCEPTION

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