

Lab 7

To be familiarize with trigger.

First we need to create table for which we will give privilege to store trigger

Query:

```
CREATE TABLE audits(  
    audit_id number GENERATED BY DEFAULT AS IDENTITY primary key,  
    table_name varchar(50),  
    transaction_name varchar(50),  
    by_user varchar(50),  
    transaction_date date  
);
```

Output:

```
Table AUDITS created.
```

Query:

```
CREATE OR REPLACE TRIGGER customers_audit_trg  
    AFTER  
    INSERT OR UPDATE OR DELETE  
    ON customers  
    FOR EACH ROW  
DECLARE  
    transaction_name :=CASE  
        WHEN INSERTING THEN 'INSERT'  
        WHEN UPDATING THEN 'UPDATE'  
        WHEN DELETING THEN 'DELETE'  
    END;  
    INSERT INTO audits (table_name, transaction_name, by_user, transaction_date)  
    VALUES('customers', transaction_name, USER, SYSDATE);  
END;
```

/

Output:

Trigger CUSTOMERS_AUDIT_TRG compiled

Now, if we insert or update or delete in customers table we can then see the information in audits table

Query:

UPDATE customers

SET last_name='karki'

WHERE customer_id = 6;

	CUSTOMER_ID	FIRST_NAME	LAST_NAME	PHONE_NUMBER
1	1	Bijay	Shrestha	9876543210
2	2	Dipak	Thapa Magar	9860558458
3	3	Ramesh	Neupane	9873333210
4	4	Gaurav	Poudel	9876549990
5	5	Sailesh	Karki	9876541470
6	6	Ram	karki	9876543210

SELECT * FROM audits;

	AUDIT_ID	TABLE_NAME	TRANSACTION_NAME	BY_USER	TRANSACTION_DATE
1	1	customers	UPDATE	SYSTEM	17-DEC-21

Conclusion and discussion:

Hence, we implement trigger and become familiarize about how it keep log file of insert, update and delete in given table.