APEX PL/SQL

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Creation of employee table
CREATE TABLE employee (
   employee_id NUMBER GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,
   first_name VARCHAR2(50) NOT NULL,
   last_name VARCHAR2(50) NOT NULL
);

Insert the values one by one
INSERT INTO employee (first_name, last_name) VALUES ('John', 'Doe');

INSERT INTO employee (first_name, last_name) VALUES ('Jane', 'Smith');

INSERT INTO employee (first_name, last_name) VALUES ('Emily', 'Johnson');

Creation of audit table:

↑ SQL Commands

Language   SQL ⌄   ?   Rows   10 ⌄   ?   Clear Command   Find Tables

```
1   CREATE TABLE employee_audit (
2       audit_id NUMBER GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY, -- Uni
3         employee_id NUMBER,                                          -- I
4           operation VARCHAR2(10),
5             first_name VARCHAR2(50),
6               last_name VARCHAR2(50),
7                 change_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP
8                 );
9
10  |
```

Results   Explain   Describe   Saved SQL   History

Table created.

Create a trigger

Language SQL ⌄ ⊙   Rows 10 ⌄ ⊙   Clear Command   Find Tables

↺ ↻   🔍   🔧   A::

```sql
1   CREATE OR REPLACE TRIGGER employee_audit_trigger
2   AFTER INSERT OR UPDATE OR DELETE ON employee
3   FOR EACH ROW
4   BEGIN
5
6        IF INSERTING THEN
7            INSERT INTO employee_audit (employee_id, operation, first_name, last_name)
8        VALUES (:NEW.employee_id, 'INSERT', :NEW.first_name, :NEW.last_name);
9                END IF;
10  IF UPDATING THEN
11  INSERT INTO employee_audit (employee_id, operation, first_name, last_name)
12     VALUES (:NEW.employee_id, 'UPDATE', :NEW.first_name, :NEW.last_name);
13                END IF;
14
15
16  IF DELETING THEN
17        INSERT INTO employee_audit (employee_id, operation, first_name, last_name)
18        VALUES (:OLD.employee_id, 'DELETE', :OLD.first_name, :OLD.last_name);
19     END IF;
20                END;
21                                                        /
```

Results   Explain   Describe   Saved SQL   History

Trigger created.