

## SQL Worksheet

Clear

Find

Actions

Save

```
1 CREATE TABLE employees (  
2     empid NUMBER PRIMARY KEY,  
3     ename VARCHAR2(100),  
4     dept VARCHAR2(50),  
5     salary NUMBER(10,2),  
6     comm NUMBER(10,2),  
7     hire_date DATE  
8 );
```

Table created.

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```
1 CREATE TABLE audit_emp(  
2     audit_id NUMBER PRIMARY KEY,  
3     action_type VARCHAR2(10), -- INSERT, UPDATE, DELETE  
4     empid NUMBER,  
5     ename VARCHAR2(100),  
6     dept VARCHAR2(50),  
7     salary NUMBER(10,2),  
8     comm NUMBER(10,2),  
9     hire_date DATE,  
10    old_ename VARCHAR2(100),  
11    old_dept VARCHAR2(50),  
12    old_salary NUMBER(10,2),  
13    old_comm NUMBER(10,2),  
14    old_hire_date DATE,  
15    action_date TIMESTAMP DEFAULT SYSTIMESTAMP  
16 );
```

Table created.

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```
1 CREATE SEQUENCE audit_emp_seq START WITH 1 INCREMENT BY 1;
```

Sequence created.

## SQL Worksheet

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```
1 CREATE OR REPLACE TRIGGER trg_update_audit
2 AFTER UPDATE ON employees
3 FOR EACH ROW
4 BEGIN
5     INSERT INTO audit_emp (
6         audit_id, action_type, empid, ename, dept, salary, comm, hire_date,
7         old_ename, old_dept, old_salary, old_comm, old_hire_date, action_date
8     ) VALUES (
9         audit_emp_seq.NEXTVAL, 'UPDATE', :NEW.empid, :NEW.ename, :NEW.dept,
10        :NEW.salary, :NEW.comm, :NEW.hire_date,
11        :OLD.ename, :OLD.dept, :OLD.salary, :OLD.comm, :OLD.hire_date, SYSTIMESTAMP
12    );
13 END;
```

Trigger created.

Resize Code Editor

## SQL Worksheet

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```
1 CREATE OR REPLACE TRIGGER trg_delete_audit
2 AFTER DELETE ON employees
3 FOR EACH ROW
4 BEGIN
5     INSERT INTO audit_emp (
6         audit_id, action_type, empid, ename, dept, salary, comm, hire_date,
7         old_ename, old_dept, old_salary, old_comm, old_hire_date, action_date
8     ) VALUES (
9         audit_emp_seq.NEXTVAL, 'DELETE', :OLD.empid, NULL, NULL, NULL, NULL,
10        NULL,
11        :OLD.ename, :OLD.dept, :OLD.salary, :OLD.comm, :OLD.hire_date, SYSTIMESTAMP
12    );
13 END;
```

Trigger created.

## SQL Worksheet

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```
1 INSERT INTO employees (empid, ename, dept, salary, comm, hire_date)
2 VALUES (1, 'John Doe', 'IT', 5000, 500, SYSDATE);
```

1 row(s) inserted.

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SQL WorksheetClearFindActionsSave

1 UPDATE employees

2 SET salary = 5500, comm = 600

3 WHERE empid = 1;

1 row(s) updated.

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SQL WorksheetClearFindActionsSave

1 DELETE FROM employees

2 WHERE empid = 1;

1 row(s) deleted.

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SQL WorksheetClearFindActionsSave

1 SELECT \* FROM audit\_emp;

AUDIT_ID	ACTION_TYPE	EMPID	ENAME	DEPT	SALARY	COMM	HIRE_DATE	OLD_ENAME	OLD_DEPT	OLD_SALARY	OLD_COMM	OLD_HIRE_
21	UPDATE	1	John Doe	IT	5500	600	13-MAR-25	John Doe	IT	5000	500	13-MAR-25
22	DELETE	1	-	-	-	-	-	John Doe	IT	5500	600	13-MAR-25
1	INSERT	1	John Doe	IT	5000	500	13-MAR-25	-	-	-	-	-

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