CREATE TABLE emp\_log\_file ( emp\_no NUMBER(3), up\_date DATE,

new\_sal NUMBER(8,2), old\_sal NUMBER(8,2) );

CREATE OR REPLACE TRIGGER audit\_sal

AFTER UPDATE OF salary ON cemp FOR EACH ROW

BEGIN

-- bind variables are used here for values

INSERT INTO emp\_log\_file VALUES( :OLD.emp\_no, SYSDATE,

:NEW.salary, :OLD.salary );

END;

create table

cemp

(

emp\_no number(3),

fname varchar(15),

lname varchar(15),

salary number(7,2)

)

desc cemp

insert into cemp values (1,'madhu','mita',70000)

select \* from cemp

update cemp set salary = 90000 where lname = 'priya'

select \* from emp\_log\_file

***Creating a Database Trigger With the BEFORE Option***

-- create a temporary table

CREATE TABLE emp\_sal\_log (emp\_id NUMBER, log\_date DATE,

new\_salary NUMBER, action VARCHAR2(50));

CREATE OR REPLACE TRIGGER log\_salary\_increase -- create a trigger

BEFORE UPDATE of salary ON cemp FOR EACH ROW

WHEN (OLD.salary < 80000)

BEGIN

INSERT INTO emp\_sal\_log (emp\_id, log\_date, new\_salary, action)

VALUES (:NEW.emp\_no, SYSDATE, :NEW.salary, 'New Salary');

END;

UPDATE cemp SET salary = salary \* 1.351 WHERE emp\_no = 2;

select \* from cemp

***Creating a Trigger That Fires Only Once***

-- create a log table

CREATE TABLE emp\_update\_log (log\_date DATE, action VARCHAR2(50));

-- create a trigger

CREATE OR REPLACE TRIGGER log\_emp\_update

AFTER UPDATE OR INSERT ON employees

DECLARE

v\_action VARCHAR2(50);

BEGIN

IF UPDATING THEN

v\_action := 'A row has been updated in the employees table';

END IF;

IF INSERTING THEN

v\_action := 'A row has been inserted in the employees table';

END IF;

INSERT INTO emp\_update\_log (log\_date, action)

VALUES (SYSDATE, v\_action);

END;

/

-- fire the trigger with an update

UPDATE employees SET salary = salary \* 1.01 WHERE department\_id = 60;

INSERT INTO employees VALUES(14, 'Belden', 'Enrique', 'EBELDEN','555.111.2222',

'31-AUG-05', 'AC\_MGR', 9000, .1, 101, 110);

-- view the log table

SELECT \* FROM emp\_update\_log;

-- clean up: remove the inserted record

DELETE FROM employees WHERE employee\_id = 14;

select\* from emp\_sal\_log