- Create a table emp with fields eno, ename, department, salary
- Insert atleast 5 records into given table.

```
=> Table created:
CREATE TABLE emp1 (
eno NUMBER,
ename VARCHAR2(50),
 department VARCHAR2(50),
salary NUMBER
);
=> Inserted Values:
INSERT INTO emp1 VALUES (1,'Alice','IT',50000);
INSERT INTO emp1 VALUES (2, 'Bob', 'HR', 6000);
INSERT INTO emp1 VALUES (3, 'Charlie', 'IT', 7000);
INSERT INTO emp1 VALUES (4, 'David', 'Finance', 8000);
INSERT INTO emp1 VALUES (5, 'Eve', 'IT', 9000);
1)1. Write a database trigger store the deleted data of EMP table in EMPDEL
table.
CREATE TABLE EMPDEL (
 eno NUMBER,
 ename VARCHAR2(50),
 department VARCHAR2(50),
salary NUMBER
);
CREATE OR REPLACE TRIGGER EMPDEL
BEFORE DELETE ON emp1
FOR EACH ROW
```

begin	
INSERT INTO EMPDEL (eno,ename,department,salary) VALUE (:OLD.eno,:OLD.ename,:OLD.department,:OLD.salary);	
end;	
/	
Test:	
SQL> select * from emp1	l;
ENO ENAME	
DEPARTMENT	SALARY
2 Bob	
HR	6000
3 Charlie	
ΙΤ	7000
4 David	
Finance	8000
ENO ENAME	
DEPARTMENT	SALARY
5 Eve	
IT	9000

```
SQL> delete from emp1 where eno=2;
1 row deleted.
SQL> select * from empdel;
   ENO ENAME
DEPARTMENT
                                   SALARY
    2 Bob
HR
                               6000
2)2. Write a database trigger to update salary in employee table and it shows
salary difference before updating data.
CREATE OR REPLACE TRIGGER emp_salary_trigger
BEFORE UPDATE OF salary ON emp1
FOR EACH ROW
DECLARE
  salary_diff NUMBER;
BEGIN
  salary_diff := :NEW.salary - :OLD.salary;
  DBMS_OUTPUT.PUT_LINE('Salary difference: ' || salary_diff);
END;
test:
INSERT INTO emp1 VALUES (1,'Alice','IT',50000);
```

```
SQL> UPDATE emp SET salary = 5500 WHERE eno = 1; -- Assuming eno 1 is one of the existing rows
2
SQL> UPDATE emp1 SET salary = 5500 WHERE eno = 1;
Salary difference: -44500
1 row updated.
3) Write a trigger to store eid, department, salary to new table before
inserting a new record into emp table.
CREATE TABLE new_emp (
  eno NUMBER,
  department VARCHAR2(50),
  salary NUMBER
);
CREATE OR REPLACE TRIGGER emp_insert_trigger
BEFORE INSERT ON emp1
FOR EACH ROW
BEGIN
  INSERT INTO new_emp (eno, department, salary)
  VALUES (:NEW.eno, :NEW.department, :NEW.salary);
END;
test/check:
INSERT INTO emp1 (eno, ename, department, salary) VALUES (101, 'John Doe', 'IT', 5000);
```

```
SELECT * FROM new_emp WHERE eno = 101;
```

4. Write a trigger to store employee details into new table who is working in 'IT' department.

```
CREATE OR REPLACE TRIGGER emp_it_trigger

BEFORE INSERT ON emp1

FOR EACH ROW

BEGIN

IF :NEW.department = 'IT' THEN

INSERT INTO new_emp (eno, department, salary)

VALUES (:NEW.eno, :NEW.department, :NEW.salary);

END IF;

END;

INSERT INTO emp1 VALUES (102,'Ashish','IT',9000);
```

SQL> select * from new_emp;

ENO DEPARTMENT	SALARY
101 IT	5000
102 IT	9000
102 IT	9000

INSERT INTO emp1 VALUES (103, 'Harshil', 'IT', 19000);

SQL> INSERT INTO emp1 VALUES (103, 'Harshil', 'IT', 19000);

1 row created.

SQL> select * from new_emp;

ENO DEPARTMENT	SALARY
101 IT	5000
102 IT	9000
102 IT	9000
103 IT	19000
103 IT	19000

5. Write a trigger which will store eno,old_salary,new_salary into new_emp table before update the salary in emp table.

CREATE OR REPLACE TRIGGER emp_salary_update_trigger
BEFORE UPDATE OF salary ON emp1
FOR EACH ROW

BEGIN

INSERT INTO new_emp (eno, department, salary)

VALUES (:OLD.eno, :OLD.department, :OLD.salary);

INSERT INTO new_emp (eno, department, salary)

VALUES (:OLD.eno, :OLD.department, :NEW.salary);

```
END;
```

/

UPDATE emp1 SET salary = 7000 WHERE eno = 4;

SQL> select * from new_emp;

ENO DEPARTMENT	SALARY
101 IT	5000
102 IT	9000
102 IT	9000
103 IT	19000
103 IT	19000
1 IT	7000
1 IT	7000
4 Finance	8000
4 Finance	7000