Q. Database trigger (all types: row level and statement level triggers, before and after triggers). Write a database trigger on student table. The system should keep a track of records that are being updated or deleted. The old value of updated or deleted records should be added in Alumni table.

Student(Roll no, Name, DateOfAdmission, Branch, Percent, Status)

```
ROW LEVEL TRIGGER BEFORE UPDATE
```

```
create or replace trigger trigger1 before update on student
for each row
begin
insert into alumni values(:old.rollno, :old.name, :old.doa, :old.branch, :old.percent, :old.status);
dbms_output_line('trigger executed');
end;
/
```

ROW LEVEL TRIGGER AFTER UPDATE

ROW LEVEL TRIGGER BEFORE DELETE

```
create or replace trigger trigger3 before delete on student
for each row
begin
insert into alumni values(:old.rollno, :old.name, :old.doa, :old.branch, :old.percent, :old.status);
dbms_output_line('trigger executed');
end;
/
```

ROW LEVEL TRIGGER AFTER DELETE

STATEMENT LEVEL TRIGGER BEFORE UPDATE

create or replace trigger trigger5 before update on student

```
begin
             insert into alumni values(999, 'TRIGGER', '15/JAN/19', 'TRIGGER', 100, 'X');
             dbms_output.put_line('trigger executed');
      end;
STATEMENT LEVEL TRIGGER AFTER UPDATE
create or replace trigger trigger6 after update on student
      begin
             insert into alumni values(999, 'TRIGGER', '15/JAN/19', 'TRIGGER', 100, 'X');
             dbms_output.put_line('trigger executed');
      end;
STATEMENT LEVEL TRIGGER BEFORE DELETE
create or replace trigger trigger7 before delete on student
      begin
             insert into alumni values(999, 'TRIGGER', '15/JAN/19', 'TRIGGER', 100, 'X');
             dbms_output.put_line('trigger executed');
      end;
STATEMENT LEVEL TRIGGER AFTER DELETE
create or replace trigger trigger8 after delete on student
      begin
             insert into alumni values(999, 'TRIGGER', '15/JAN/19', 'TRIGGER', 100, 'X');
             dbms_output.put_line('trigger executed');
      end;
```