4)

```
SET SERVEROUTPUT ON;
CREATE TABLE CUSTOMER (
ID INT PRIMARY KEY,
NAME VARCHAR(10),
AGE INT,
ADDRESS VARCHAR(10),
SALARY number(10, 2)
);
INSERT INTO CUSTOMER values(1,’Ramesh’,25,’Mysore’,200000);
INSERT INTO CUSTOMER values(2,’Komal’,35,’Bangalore’,800000);
INSERT INTO CUSTOMER values(3,’Mala’,45,’Mangalore’,56000);

CREATE OR REPLACE TRIGGER sal_difference_trigger9844
BEFORE INSERT OR UPDATE OR DELETE ON CUSTOMER
FOR EACH ROW
DECLARE
old_salary NUMBER;
new_salary NUMBER;
BEGIN
 IF INSERTING OR UPDATING THEN
old_salary := NVL(:OLD.SALARY, 0);
new_salary := NVL(:NEW.SALARY, 0);
 DBMS_OUTPUT.PUT_LINE('Salary difference: ' || (new_salary - old_salary));
DBMS_OUTPUT.PUT_LINE('old_salary: ' || old_salary);
DBMS_OUTPUT.PUT_LINE('new_salary: ' || new_salary);
ELSIF DELETING THEN
old_salary := NVL(:OLD.SALARY, 0);
 DBMS_OUTPUT.PUT_LINE('Salary before deletion: ' || old_salary);
 END IF;
END;
/

select * from CUSTOMER;
INSERT INTO CUSTOMER values(6,’Jamal’,30,’Mumbai’,70000);
select * from CUSTOMER;

UPDATE CUSTOMER SET SALARY=SALARY+5000 WHERE ID=2;
SELECT * FROM CUSTOMER;

DELETE FROM CUSTOMER WHERE ID=2;
```

5)

```
CREATE TABLE EMPLOYEE5
(
E_ID INT PRIMARY KEY,
E_NAME VARCHAR (15),
AGE INT,
SALARY DECIMAL (10, 2)
);
INSERT INTO EMPLOYEE5 VALUES (1, 'Ramesh', 32, 2000.00);
INSERT INTO EMPLOYEE5 VALUES (2, 'Khilan', 25,1500.00);
INSERT INTO EMPLOYEE5 VALUES (3, 'Kaushik', 23,2000.00);
INSERT INTO EMPLOYEE5 VALUES (4, 'Chaitali', 25,6500.00);

DECLARE
E_id Employee5.E_id%TYPE;
E_name Employee5.E_name%TYPE;
Age Employee5.Age%TYPE;
Salary Employee5.Salary%TYPE;
-- Declare cursor
CURSOR employee_cursor IS
SELECT E_id, E_name, Age, Salary
FROM Employee5;
```

```
-- Open the cursor
BEGIN
OPEN employee_cursor;
-- Fetch data from cursor
LOOP
FETCH employee_cursor INTO E_id, E_name, Age, Salary;
EXIT WHEN employee_cursor%NOTFOUND;
-- Output or use the fetched values
DBMS_OUTPUT.PUT_LINE('Employee ID: ' || E_id || ', Name: ' || E_name || ', Age:
' || Age || ',
Salary: ' || Salary);
END LOOP;
CLOSE employee_cursor;
END;
/
```

6)

```
create table O_RollCall (roll int,name varchar(10));
create table N_RollCall (roll int,name varchar(10));
insert into O_RollCall values(1,'bc');
insert into O_RollCall values(3,'bcd');
insert into O_RollCall values(4,'d');
insert into O_RollCall values(5,'bch');
insert into N_RollCall values(1,'bc');
insert into N_RollCall values(2,'b');
insert into N_RollCall values(5,'bch');
DECLARE
v_count NUMBER;
CURSOR c_new_rollcall IS
SELECT roll, name
FROM N_RollCall;
BEGIN
FOR new_rec IN c_new_rollcall LOOP
-- Check if the record already exists in O_RollCall
SELECT COUNT(*)
INTO v_count
FROM O_RollCall
WHERE roll = new_rec. roll;
-- If record doesn't exist, insert it
IF v_count = 0 THEN
INSERT INTO O_RollCall (roll, name)
VALUES (new_rec. roll, new_rec.name);
DBMS_OUTPUT.PUT_LINE('Record inserted: ' || new_rec. roll);
ELSE
DBMS_OUTPUT.PUT_LINE('Record skipped: ' || new_rec. roll);
END IF;
END LOOP;
COMMIT;
END;
/
select * from N_RollCall;
select * from O_RollCall;
```