1. Write a cursor to find name, id and age of employees whose name starts with letter 'P'.

```
DECLARE
    CURSOR emp cursor IS
      SELECT emp name, emp id, age
      FROM employees
      WHERE emp name LIKE 'P%'; -- Names starting with 'P'
    emp row emp cursor%ROWTYPE;
   BEGIN
    OPEN emp_cursor;
    LOOP
      FETCH emp cursor INTO emp row;
      EXIT WHEN emp cursor%NOTFOUND; -- Exit when no more rows are found
      DBMS OUTPUT.PUT LINE('Name: ' || emp row.emp name || ', ID: ' ||
  emp row.emp id | ', Age: ' | emp row.age);
    END LOOP;
    CLOSE emp_cursor;
   END;
  DECLARE
    emp name employees.emp name%TYPE;
    emp id employees.emp id%TYPE;
    age employees.age%TYPE;
   BEGIN
    -- Implicit cursor for selecting one employee whose name starts with 'P'
    SELECT emp name, emp id, age
    INTO emp name, emp id, age
    FROM employees
    WHERE emp name LIKE 'P%' AND ROWNUM = 1; -- Fetch one row only
    DBMS OUTPUT.PUT LINE('Name: ' || emp name || ', ID: ' || emp id || ', Age: ' || age);
  END;
2. Write a cursor to find names of passengers who travel on RED BUS
  DECLARE
```

```
CURSOR red bus cursor IS
   SELECT passenger name
   FROM passengers
   WHERE bus name = 'RED BUS';
 pass row red bus cursor%ROWTYPE;
BEGIN
 OPEN red bus cursor;
 LOOP
   FETCH red bus cursor INTO pass row;
   EXIT WHEN red bus cursor%NOTFOUND:
   DBMS OUTPUT.PUT LINE('Passenger: ' || pass row.passenger name);
 END LOOP:
 CLOSE red bus cursor;
```

```
END;
   DECLARE
    passenger name passengers.passenger name%TYPE;
   BEGIN
    -- Implicit cursor for selecting one passenger traveling on 'RED BUS'
    SELECT passenger name INTO passenger name
    FROM passengers
    WHERE bus name = 'RED BUS' AND ROWNUM = 1;
    DBMS OUTPUT.PUT LINE('Passenger: ' || passenger name);
   END;
3. Write a cursor to display names of faculty who teach "Java Programming".
   DECLARE
    CURSOR java faculty cursor IS
      SELECT faculty name
      FROM faculty
      WHERE subject = 'Java Programming';
     fac row java faculty cursor%ROWTYPE;
   BEGIN
    OPEN java faculty cursor;
    LOOP
      FETCH java faculty cursor INTO fac row;
      EXIT WHEN java faculty cursor%NOTFOUND:
      DBMS OUTPUT.PUT LINE('Faculty: ' || fac row.faculty name);
    END LOOP:
    CLOSE java faculty cursor;
   END;
   DECLARE
     faculty name faculty.faculty name%TYPE;
   BEGIN
     -- Implicit cursor for selecting one faculty teaching 'Java Programming'
    SELECT faculty name INTO faculty name
    FROM faculty
    WHERE subject = 'Java Programming' AND ROWNUM = 1;
    DBMS OUTPUT.PUT LINE('Faculty: ' || faculty name);
   END;
4. Write a cursor to List the employees along with their Experience and Daily Salary.
   DECLARE
    CURSOR emp exp salary cursor IS
      SELECT emp name, experience, salary/30 AS daily salary
      FROM employees;
    emp row emp exp salary cursor%ROWTYPE;
   BEGIN
```

```
OPEN emp_exp_salary_cursor;
    LOOP
      FETCH emp exp salary cursor INTO emp row;
      EXIT WHEN emp exp salary cursor%NOTFOUND;
      DBMS OUTPUT.PUT LINE('Name: ' || emp row.emp name || ', Experience: ' ||
   emp row.experience | ', Daily Salary: ' || emp row.daily salary);
    END LOOP;
    CLOSE emp exp salary cursor;
   END;
   DECLARE
    emp name employees.emp name%TYPE;
    experience employees.experience%TYPE;
    daily salary employees.salary%TYPE;
   BEGIN
    -- Implicit cursor for selecting one employee's experience and daily salary
    SELECT emp name, experience, salary/30 INTO emp name, experience, daily salary
    FROM employees
    WHERE ROWNUM = 1;
    DBMS OUTPUT.PUT LINE('Name: ' || emp name || ', Experience: ' || experience || ',
   Daily Salary: ' || daily_salary);
   END;
5. Write a cursor to list names of doctors whose salary is greater than doctor "Jhon".
   DECLARE
    CURSOR doctor cursor IS
      SELECT doctor name
      FROM doctors
      WHERE salary > (SELECT salary FROM doctors WHERE doctor name = 'Jhon');
    doc row doctor cursor%ROWTYPE;
   BEGIN
    OPEN doctor cursor;
    LOOP
      FETCH doctor cursor INTO doc row;
      EXIT WHEN doctor cursor%NOTFOUND;
      DBMS OUTPUT.PUT LINE('Doctor: ' || doc row.doctor name);
    END LOOP;
    CLOSE doctor_cursor;
   END;
   DECLARE
    doctor name doctors.doctor name%TYPE;
   BEGIN
    -- Implicit cursor for selecting one doctor whose salary is greater than Jhon's salary
    SELECT doctor name INTO doctor name
    FROM doctors
    WHERE salary > (SELECT salary FROM doctors WHERE doctor name = 'Jhon') AND
   ROWNUM = 1:
```

```
DBMS_OUTPUT_PUT_LINE('Doctor: ' || doctor_name); END;
```

Triggers

1. Write a trigger to check age validity of a customer using row level triggers. (Age should not be less than 20)

CREATE OR REPLACE TRIGGER age_check_trigger

BEFORE INSERT OR UPDATE ON customer

FOR EACH ROW

BEGIN

```
IF:NEW.age < 20 THEN
```

RAISE APPLICATION ERROR(-20001, 'Age must be at least 20.');

END IF;

END;

2. Create a Trigger for one instance of student table it will update another table while inserting values.

CREATE OR REPLACE TRIGGER student_update_trigger

AFTER INSERT ON student

FOR EACH ROW

BEGIN

UPDATE other table

SET related column = :NEW.student column

WHERE condition_column = :NEW.student_id;

END;

3. Create a row level after trigger on customer table.

CREATE OR REPLACE TRIGGER log_customer_insert

AFTER INSERT ON customer

FOR EACH ROW

BEGIN