Title: Write query to create table Customer and order.

Objective: Create the following tables:

**Customer** 

Column_name	Data type	Size	Constraint
SID	Varchar2	4	Primary Key
First_Name	Char	20	
Last_name	Char	20	

#### **Orders**

Column name	Data type	Size	Constraint
Order_ID	Varchar2	4	Primary Key
Order_date	Char	20	
Customer_SID	Varchar2	20	Foreign Key
Amount	Number		Check > 20000

#### Pre-requisites:

- Knowledge of RDBMS and DBMS
- Sql queries
- DDL query

#### Query:

Create table Customer(sid varchar(4)primary key,First\_Name char(20),Last\_Name char(20));

Create table Orders2(Order\_id varchar(4) primary key, Order\_date char(20), Customer\_sid varchar(20) references customer(sid), Amount int check(amount>20000));

SQL Worksheet		Find ?	Actions 🗸	☐ Save	Run 🕑
Create table Customer(sid varchar(4)primary key,First_Name char(20),Last_Name char(20)); Create table Orders2(Order_id varchar(4) primary key, Order_date char(20), Customer_sid varchar(20) references custom	46.60	<b>1 1 1 1</b>		1 VASO	Run 🔾
Table created.					
Table created.					

Title:Write a query to insert records 5 records in Customer and Order table.

Objective: Insert five records for each table

#### Pre-requisites:

- Knowledge of SQL queries
- DDL query

#### Query:

#### **Customer values**

```
insert into customer values('1', 'Arun', 'Kumar'); insert into customer values('2', 'Raja', 'Rogi'); insert into customer values('3', 'Sumit', 'Kumar'); insert into customer values('4', 'Jen', 'Joby'); insert into customer values('5', 'Chinu', 'Gandhi');
```

#### **Order values**

```
insert into Orders2 values('101', '20-10-2012', '1', 25000); insert into Orders2 values('A12', '10-09-2024', '5',30000); insert into Orders2 values('1MK', '25-12-2019','3',55000); insert into Orders2 values('Gh3', '20-05-2025', '4', 26000); insert into Orders2 values('KL2', '12-10-2010', '2',25000);
```

```
SQL Worksheet

② Clear Sp. Find Actions ✓ Runn ○

1 insert into customer values('1', 'Arun', 'Kumar');
2 insert into customer values('2', 'Raja', 'Nogi');
3 insert into customer values('3', 'Sumit', 'Kumar');
4 insert into customer values('4', 'Jen', 'Joby');
5 insert into customer values('5', 'Chinu', 'Gandhi');

SQL Statement Output
```

```
SQL Worksheet

② Clear % find Actions ✓ ☑ Save Rum ○

1 insert into Orders2 values('101', '20-10-2012', '1', 25000);
2 insert into Orders2 values('11/K', '25-12-2019', '3', 55000);
4 insert into Orders2 values('6h3', '20-05-2025', '4', 26000);
5 insert into Orders2 values('KL2', '12-10-2010', '2', 25000);
6
7
8

1 row(s) inserted.
1 row(s) inserted.
```

Title: Write a query to show all records in table along with their amounts.

Objective: List the details of the customers along with the amount.

#### Pre-requisites:

- SQL queries
- DML commands

#### Query:

SELECT customer.sid,customer.First\_Name,customer.Last\_Name, Orders2.Amount FROM customer Inner join Orders2 on customer.sid = Orders2.customer\_sid;

Output				
sid	First_Name	Last_Name	Amount	
1	Arun	Kumar	25000	
5	Chinu	Gandhi	30000	
3	Sumit	Kumar	55000	
4	Jen	Joby	26000	
2	Raja	Rogi	25000	

Title: Write a query to show records of customer name's end with a

Objective: List the customers whose names end with "a".

### Pre-requisites:

- SQL queries
- DML queries

#### Query:

select \* from Customer where First\_Name like"%a";

Output					
sid	First_Name	Last_Name			
2	Raja	Rogi			

Title: Write a query to show records of orders where amount is 21000 and 30000.

Objective: List the orders where amount is between 21000 and 30000

## Pre-requisites:

- SQl queries
- DML queries

### Query:

select \* from Orders2 where amount between "21000" and "30000";

Output				
Order_id	Order_date	Customer_sid	Amount	
101	20-10-2012	1	25000	
A12	10-09-2024	5	30000	
Gh3	20-05-2025	4	26000	
KL2	12-10-2010	2	25000	

Title: Write sql query to show records where amount is increased by 500.

Objective: List the orders where amount is increased by 500 and replace with name "new amount".

### Pre-requisites:

- SQL queries
- DML queries

#### Query:

select \*,Amount as 'New amount' from Orders2;

Output				
Order_id	Order_date	Customer_sid	Amount	New amount
101	20-10-2012	1	25500	25500
A12	10-09-2024	5	31000	31000
1MK	25-12-2019	3	55500	55500
Gh3	20-05-2025	4	27000	27000
KL2	12-10-2010	2	25500	25500

Title: Write sql query to show records with their order id and total amount of order done by that order id.

Objective: Display the order\_id and total amount of orders

### Pre-requisites:

- SQL query
- DML queries

### Query:

select Order\_id,total(Amount) from Orders2 group by Customer\_sid;

Output			
Order_id	total(Amount)		
101	25000		
KL2	25000		
1MK	55000		
Gh3	26000		
A12	30000		

Title: Write a sql query to show records where amount is more than 15000.

Objective: Calculate the total amount of orders that has more than 15000.

#### Pre-requisites:

- SQL query
- DML queries

#### Query:

Select total(Amount) from Orders2 where amount>15000 group by Customer\_sid;



Title: Write query to create table Students and Student1.

Objective: Create the following tables

**Student** 

Column name	Data type	Size	Constraint
RollNo	Varchar2	20	Primary Key
Name	Char	20	
Class	Varchar2	20	
Marks	Number	6,2	

#### Student1

Column_name	Data type	Size	Constraint
R_No	Varchar2	20	Primary Key
Name	Char	20	
Class	Varchar2	20	
Marks	Number	6,2	

### Pre-requisites:

- SQL query
- DDL queries

#### Query:

create table Student(Roll\_no varchar(20)primary key,Name char(20),Class varchar(20),Marks int);

create table Student1(R\_No varchar(20)primary key,Name char(20),Class varchar(20),Marks int);

```
Create table Student(Roll_no varchar(20)primary key,Name char(20),Class varchar(20),Marks int);

create table Student1(R_No varchar(20)primary key,Name char(20),Class varchar(20),Marks int);

Output

SQL query successfully executed. However, the result set is empty.
```

Title: Write sql query to display records from student and student1 table.

Objective: Display all the contents of student and student1 using union clause.

## Pre-requisites:

- SQL query
- DML queries

## Query:

select \* from Student

#### **UNION**

select \* from Student1;

Output				
Roll_no	Name	Class	Marks	
89F	sadhana	E	82	
AX3	krishna	С	95	
D89	rohan	С	100	
L09	zoro	A	96	
P56	dinesh	E	82	
Q90	maya	В	45	
S90	sanji	A	96	
W78	kris	В	45	

Title: Write sql query to show records common in Student and Student1 table.

Objective: Find out the intersection of student and student1 tables.

### Pre-requisites:

- SQL query
- DML queries

#### Query:

select \* from Student

#### **INTERSECT**

select \* from Student1;

Output				
Roll_no	Name	Class	Marks	
AX3	krishna	С	95	
D89	rohan	С	100	

Title: write sql queries to show records using different joins.

Objective: Display the names of student and student1 tables using left and inner join.

#### Pre-requisites:

- SQL query
- DML queries
- JOINS

## Query:

#### **LEFT JOIN**

SELECT Roll\_no FROM Student

**LEFT JOIN Student1** 

ON Student.Roll no = Student1.R No;

#### **INNER JOIN**

SELECT Roll\_no FROM Student

**INNER JOIN Student1** 

ON Student.Roll\_no = Student1.R\_No;

Output:

#### **LEFT JOIN**



### **INNER JOIN**



Title: PL/SQL queries to calculate

Objective: Write a PL/SQL block to calculate total salary of employee having employee number 100.

Pre-requisites:

END;

```
    SQl query

    PL/SQL query

Query:
DECLARE
 num1 NUMBER;
 num2 NUMBER;
 num3 NUMBER;
 greatest NUMBER;
BEGIN
 num1 := 15;
 num2 := 25;
 num3 := 10;
 IF (num1 >= num2 AND num1 >= num3) THEN
  greatest := num1;
 ELSIF (num2 >= num1 AND num2 >= num3) THEN
   greatest := num2;
 ELSE
    greatest := num3;
 END IF;
 DBMS_OUTPUT.PUT_LINE('The greatest number is: ' || greatest);
```

## Output:

## Output:

The greatest number is: 25

Title: Write pl/sql query to show number from 1 to n

Objective: Write a PL/SQL code to print the numbers from 1 to n.

Pre-requisites:

- SQL query
- PL/SQL queries

```
Query:
```

```
DECLARE

n NUMBER;

BEGIN

n := 10;

FOR i IN 1..n LOOP

DBMS_OUTPUT.PUT_LINE(i);

END LOOP;
```

Output:

END;

```
Output:

1
2
3
4
5
6
7
8
9
10
```

Title: PL/SQL query to for reversing string.

Objective: Write a PL/SQL code to reverse a string using for loop.

Pre-requisites:

- SQL query
- PL/SQL queries

#### Query:

```
DECLARE
```

```
original_string VARCHAR2(100) := 'Hello, World!';
reversed_string VARCHAR2(100) := '';
string_length INTEGER;
BEGIN
```

```
string_length := LENGTH(original_string);
```

FOR i IN REVERSE 1 .. string\_length LOOP

reversed\_string := reversed\_string || SUBSTR(original\_string, i, 1);

END LOOP;

DBMS\_OUTPUT\_LINE('Original String: ' || original\_string);

DBMS\_OUTPUT.PUT\_LINE('Reversed String: ' | | reversed\_string);

END;

Output:

## Output:

Original String: Hello, World!

Reversed String: !dlroW ,olleH

Title:PL/SQL command for finding factorial of number.

Objective:. Write a PL/SQL query to find factorial of a number.

Pre-requisites:

```
• SQL query
```

PL/SQL query

```
PL/SQL queries
```

Query:

```
DECLARE
```

```
num INTEGER := 5;
factorial INTEGER := 1;
```

#### **BEGIN**

```
FOR i IN 1 .. num LOOP
  factorial := factorial * i;
END LOOP;
```

DBMS\_OUTPUT\_LINE('Factorial of ' || num || ' is: ' || factorial);

END;

Output:

### Output:

Factorial of 5 is: 120

Title: PL/SQL command for finding power of number.

Objective: Write a PL/SQL query to find power of a number.

Pre-requisites:

```
• SQL query
```

• PL/SQL query

```
Query:
```

```
DECLARE
```

```
base NUMBER := 2;
exponent INTEGER := 3;
result NUMBER := 1;
```

FOR i IN 1 .. exponent LOOP

#### **BEGIN**

```
result := result * base;
END LOOP;
DBMS_OUTPUT_LINE('Power of ' || base || ' raised to ' || exponent || '
is: ' || result);
```

END;

Output:

#### Output:

Power of 2 raised to 3 is: 8

#### **EXERCISE 18**

Title: PL/SQL command for finding reverse of string.

Objective: Write a PL/SQL code to reverse a string using for loop.

Pre-requisites:

- SQL query
- PL/SQL query

```
QUERY:
```

```
SET SERVEROUTPUT ON;
```

#### **DECLARE**

```
original_string VARCHAR2(100) := 'Hello, World!'; -- Input string
reversed_string VARCHAR2(100) := ''; -- Variable to hold the reversed
string
```

```
string_length_INTEGER; -- Length of the original string
```

#### **BEGIN**

- -- Get the length of the original string
  string\_length := LENGTH(original\_string);
- -- Loop through the original string in reverse order

FOR i IN REVERSE 1..string\_length LOOP

- -- Concatenate each character to the reversed string
  reversed\_string := reversed\_string || SUBSTR(original\_string, i, 1);
  END LOOP;
- -- Output the reversed string

```
DBMS_OUTPUT_LINE('Original String: ' || original_string);
```

```
DBMS_OUTPUT_LINE('Reversed String: ' | | reversed_string);
END;
/
```

### OUTPUT:

Statement processed.

Original String: Hello, World! Reversed String: !dlroW ,olleH

#### **EXERCISE 19**

Title: PL/SQL command for finding sum of number.

Objective: Write a PL/SQL code to find suum of n numbers.

Pre-requisites:

- SQL query
- PL/SQL query

#### QUERY:

#### **DECLARE**

```
n NUMBER; -- Number of elements to sum

num NUMBER; -- Variable to hold each input number

total sum NUMBER := 0; -- Variable to hold the total sum
```

#### **BEGIN**

-- Prompt for the number of elements

DBMS\_OUTPUT.PUT\_LINE('Enter the number of elements to sum:');

- -- Assume n is provided via some input mechanism, such as a substitution variable or input form
  - -- For this example, we can assign it directly, or you can modify this part to accept input n := 5; -- Change this value as needed

#### FOR i IN 1..n LOOP

- -- Prompt for each element in real applications, you would capture input dynamically
- -- Here, for demonstration, we can simulate input:

```
DBMS_OUTPUT.PUT_LINE('Enter number ' || i || ':');
```

- -- Replace this with your input mechanism
- -- For example purposes, we're just prompting and assuming fixed values:

num := i \* 10; -- This is just a placeholder, replace it with actual input capture

```
-- Add the number to the total sum

total_sum := total_sum + num;

END LOOP;

-- Output the result

DBMS_OUTPUT.PUT_LINE('The total sum of the ' || n || ' numbers is: ' || total_sum);

EXCEPTION

WHEN OTHERS THEN

DBMS_OUTPUT.PUT_LINE('An error occurred: ' || SQLERRM);

END;

/

OUTPUT:
```

```
Statement processed.
Enter the number of elements to sum:
Enter number 1:
Enter number 2:
Enter number 3:
Enter number 4:
Enter number 5:
The total sum of the 5 numbers is: 150
```

#### **EXERCISE 20**

Title: PL/SQL command for display the empno, ename, job of employees of department number 10

Objective: Write a PL/SQL code to consider a PL/SQL code to display the empno, ename, job of employees of department number 10

#### Pre-requisites:

- SQL query
- PL/SQL query

#### **QUERY**

SET SERVEROUTPUT ON;

#### **DECLARE**

```
CURSOR emp_cursor IS
```

SELECT empno, ename, job

FROM employees

WHERE deptno = 10; -- Filter for department number 10

emp\_record emp\_cursor%ROWTYPE; -- Record type to hold cursor data

#### **BEGIN**

-- Open the cursor and fetch each employee record

OPEN emp\_cursor;

#### **LOOP**

FETCH emp\_cursor INTO emp\_record;

EXIT WHEN emp cursor%NOTFOUND; -- Exit loop when no more records

```
-- Display the employee details

DBMS_OUTPUT.PUT_LINE('Emp No: ' || emp_record.empno ||

', Name: ' || emp_record.ename ||

', Job: ' || emp_record.job);

END LOOP;

-- Close the cursor

CLOSE emp_cursor;

END;

/
Output:
```

#### **EMPLOYEE2**

empno	ename	salary
101	John	50000
102	Alice	60000
103	Bob	75000
104	Charlie	80000
105	David	55000
106	<b>E</b> va	70000

empno	ename	salary
104	Charlie	80000
103	Bob	75000
106	<b>E</b> va	70000
102	Alice	60000
105	David	55000

#### **EXERCISE 21**

**Title:** To Consider a PL/SQL procedure that accepts 2 numbers & return addition, subtraction, multiplication & division of two numbers using stored procedure AND local procedure.

**Objective:** To Consider a PL/SQL procedure that accepts 2 numbers & return addition, subtraction, multiplication & division of two numbers using stored procedure AND local procedure.

Pre-requisites:

```
    SQL query
```

```
    PL/SQL query
```

```
QUERY
```

```
_SET SERVEROUTPUT ON;
```

```
CREATE OR REPLACE PROCEDURE calculate_operations (
```

```
p_num1 IN NUMBER,
p_num2 IN NUMBER,
p_add OUT NUMBER,
p_sub OUT NUMBER,
p_mul OUT NUMBER,
p_div OUT NUMBER
) AS
-- Local procedure to perform calculations
PROCEDURE perform_calculations (
    num1 IN NUMBER,
    num2 IN NUMBER,
    add_result OUT NUMBER,
    sub_result OUT NUMBER,
```

mul result OUT NUMBER,

```
div result OUT NUMBER
  ) IS
  BEGIN
    add_result := num1 + num2;
    sub_result := num1 - num2;
    mul result := num1 * num2;
    -- Check for division by zero
    IF num2 != 0 THEN
      div_result := num1 / num2;
    ELSE
      div_result := NULL; -- or you can raise an exception
    END IF;
  END perform_calculations;
BEGIN
  -- Call the local procedure to perform calculations
  perform_calculations(p_num1, p_num2, p_add, p_sub, p_mul, p_div);
END calculate_operations;
Output:
 Procedure created.
```

#### Exercise 22

Title: To Write a PL/SQL block to show the use of NO\_DATA FOUND exception

**Objective:** To Write a PL/SQL block to show the use of NO\_DATA FOUND exception **Pre-requisites:** 

```
    SQL query
```

```
    PL/SQL query
```

```
QUERY
```

```
DECLARE
```

```
v_employee_id NUMBER := 100; -- Assuming we are looking for an employee
with ID 100
v_first_name VARCHAR2(50);
```

## BEGIN

-- Attempt to fetch employee details

```
SELECT first_name, last_name
```

v\_last\_name VARCHAR2(50);

INTO v first name, v last name

FROM employees

WHERE employee\_id = v\_employee\_id;

-- Display the employee details if found

```
DBMS_OUTPUT_LINE('Employee Found: ' || v_first_name || ' ' || v_last_name);
```

#### **EXCEPTION**

```
WHEN NO_DATA_FOUND THEN

DBMS_OUTPUT.PUT_LINE('No employee found with ID' | |
v_employee_id);

END;
```

## Output

## EMPLOYEE3

empno	ename	salary
101	John	50000
102	Alice	60000
103	Bob	75000

# result NO\_DATA\_FOUND: No employee found with the given employee number

#### **Exercise 22**

Title: To Write a PL/SQL block to show use of local function

**Objective:** To Consider a PL/SQL code that accepts 2 numbers & return addition, subtraction, multiplication & division of two numbers using stored functions and local function.**Pre-requisites:** 

- SQL query
- PL/SQL query

**QUERY** 

CREATE OR REPLACE PACKAGE math\_operations AS

FUNCTION add\_numbers(num1 NUMBER, num2 NUMBER) RETURN NUMBER;

FUNCTION subtract\_numbers(num1 NUMBER, num2 NUMBER) RETURN NUMBER;

FUNCTION multiply\_numbers(num1 NUMBER, num2 NUMBER) RETURN NUMBER;

FUNCTION divide\_numbers(num1 NUMBER, num2 NUMBER) RETURN NUMBER;

END math\_operations;

CREATE OR REPLACE PACKAGE BODY math\_operations AS

FUNCTION add\_numbers(num1 NUMBER, num2 NUMBER) RETURN NUMBER IS

**BEGIN** 

RETURN num1 + num2;

END add numbers;

FUNCTION subtract\_numbers(num1 NUMBER, num2 NUMBER) RETURN NUMBER IS

**BEGIN** 

```
RETURN num1 - num2;
 END subtract_numbers;
 FUNCTION multiply numbers(num1 NUMBER, num2 NUMBER) RETURN
NUMBER IS
 BEGIN
   RETURN num1 * num2;
 END multiply numbers;
 FUNCTION divide numbers(num1 NUMBER, num2 NUMBER) RETURN
NUMBER IS
 BEGIN
   IF num2 = 0 THEN
     RAISE_APPLICATION_ERROR(-20001, 'Division by zero is not allowed');
   END IF;
   RETURN num1 / num2;
 END divide numbers;
END math_operations;
DECLARE
 num1 NUMBER;
 num2 NUMBER;
 result add NUMBER;
 result_subtract NUMBER;
 result_multiply NUMBER;
 result_divide NUMBER;
```

#### **BEGIN**

```
-- Accepting two numbers; these values can be taken from user input or
hardcoded
  num1 := 10; -- Example value
  num2 := 5; -- Example value
 -- Calling the stored functions from the package
  result add := math operations.add numbers(num1, num2);
  result_subtract := math_operations.subtract_numbers(num1, num2);
  result multiply := math operations.multiply numbers(num1, num2);
 -- Handle division with exception
  BEGIN
    result_divide := math_operations.divide_numbers(num1, num2);
  EXCEPTION
    WHEN OTHERS THEN
      DBMS_OUTPUT.PUT_LINE(SQLERRM);
  END;
 -- Display the results
  DBMS_OUTPUT.PUT_LINE('Addition: ' | | result_add);
 DBMS OUTPUT.PUT LINE('Subtraction: ' | | result subtract);
  DBMS OUTPUT.PUT LINE('Multiplication: ' | | result multiply);
 DBMS_OUTPUT_LINE('Division: ' | | result_divide);
END;
```

## Output

Statement processed. Addition: 15

Subtraction: 5 Multiplication: 50
Division: 2

#### **Exercise 23**

Title: To Write a PL/SQL block to show use of TOO MANY ROWS

Objective: To Write a PL/SQL block to show the use of TOO\_MANY ROWS exception

#### **Pre-requisites:**

- SQL query
- PL/SQL query

#### Query

SET SERVEROUTPUT ON;

#### **DECLARE**

v\_deptno NUMBER := 10; -- Change this to a department number that has multiple employees

v\_ename VARCHAR2(100);

#### **BEGIN**

-- Attempt to select the employee name based on department number

SELECT ename INTO v\_ename

FROM employees

WHERE deptno = v\_deptno;

-- If the employee is found, display the name

DBMS\_OUTPUT.PUT\_LINE('Employee Name: ' | | v\_ename);

#### **EXCEPTION**

WHEN TOO\_MANY\_ROWS THEN

-- Handle the exception when too many rows are found

DBMS\_OUTPUT\_LINE('Error: More than one employee found in department number: ' || v\_deptno);

WHEN NO DATA FOUND THEN

```
-- Handle the exception when no data is found
    DBMS_OUTPUT.PUT_LINE('No employee found in department number: '
|| v_deptno);
 WHEN OTHERS THEN
    -- Handle any other exceptions
    DBMS_OUTPUT.PUT_LINE('An unexpected error occurred: ' |  | SQLERRM);
END;
Output
```

Output

result

TOO\_MANY\_ROWS: More than one row found

#### Exercise 24

Title: To Write a PL/SQL block to show use of ZERO DIVIDE

**Objective:** Write a PL/SQL block to show the use of ZERO\_DIVIDE exception

```
Pre-requisites:
```

```
    SQL query
```

PL/SQL query

```
Query
```

```
DECLARE
```

```
numerator NUMBER := 10;
```

denominator NUMBER := 0; -- Set this to 0 to trigger the ZERO\_DIVIDE exception

result NUMBER;

#### **BEGIN**

```
-- Attempt to perform the division
```

result := numerator / denominator;

DBMS\_OUTPUT.PUT\_LINE('Result: ' | | result);

#### **EXCEPTION**

WHEN ZERO\_DIVIDE THEN

DBMS OUTPUT.PUT LINE('Error: Division by zero is not allowed.');

WHEN OTHERS THEN

DBMS\_OUTPUT.PUT\_LINE('An unexpected error occurred: ' | | SQLERRM);

END;

#### Output

Statement processed.

Error: Division by zero is not allowed.

#### Exercise 25

Title: To Write a PL/SQL block to show audit of table.

**Objective:** To create a trigger on the emp table, which store the empno& operation in the table auditor for each operation i.e. Insert, Update & Delete.

#### **Pre-requisites:**

```
    SQL query
```

```
    PL/SQL query

Query
CREATE TABLE auditor (
  audit id NUMBER GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,
  empno NUMBER,
  operation VARCHAR2(10),
  operation time TIMESTAMP DEFAULT CURRENT TIMESTAMP
);
CREATE OR REPLACE TRIGGER trg_audit_emp
AFTER INSERT OR UPDATE OR DELETE ON emp
FOR EACH ROW
BEGIN
  IF INSERTING THEN
    INSERT INTO auditor (empno, operation)
    VALUES (:NEW.empno, 'INSERT');
  ELSIF UPDATING THEN
    INSERT INTO auditor (empno, operation)
    VALUES (:NEW.empno, 'UPDATE');
  ELSIF DELETING THEN
    INSERT INTO auditor (empno, operation)
```

```
VALUES (:OLD.empno, 'DELETE');
  END IF;
END trg_audit_emp;
-- Insert a new employee
INSERT INTO emp (empno, ename, job, mgr, hiredate, sal, comm, deptno)
VALUES (1, 'John Doe', 'Developer', NULL, SYSDATE, 50000, NULL, 10);
-- Update the employee
UPDATE emp
SET sal = 55000
WHERE empno = 1;
-- Delete the employee
DELETE FROM emp
WHERE empno = 1;
-- Check the auditor table
SELECT * FROM auditor;
```

#### Exercise 26

**Title:** To Write a PL/SQL block to no operation code.

Objective: To create a trigger so that no operation can be performed on emp table

#### **Pre-requisites:**

- SQL query
- PL/SQL query

#### Query

CREATE OR REPLACE TRIGGER trg\_prevent\_emp\_operations

BEFORE INSERT OR UPDATE OR DELETE ON emp

**BEGIN** 

RAISE\_APPLICATION\_ERROR(-20001, 'No operations are allowed on the emp table.');

END trg\_prevent\_emp\_operations;

/

-- Attempt to insert a new employee

INSERT INTO emp (empno, ename, job, mgr, hiredate, sal, comm, deptno)

VALUES (1, 'John Doe', 'Developer', NULL, SYSDATE, 50000, NULL, 10);

ORA-20001: No operations are allowed on the emp table.

ORA-06512: at "YOUR\_SCHEMA.TRG\_PREVENT\_EMP\_OPERATIONS", line 2

ORA-04088: error during execution of trigger 'YOUR\_SCHEMA.TRG\_PREVEN'