/\*Problem Statement 4 (Procedures / Functions)

Consider following schema for Bank database.

Account(Account\_No, Cust\_Name, Balance, NoOfYears)

Earned\_Interest(Account\_No, Interst\_Amt)

1. Write a PL/SQL procedure for following requirement. Take as input Account\_No and

Interest Rate from User.Calculate the Interest\_Amt as simple interest for the given

Amount\_No and store it in Earned\_interest table.Display all the details of

Earned\_interest Table.

2. Write a PLSQL function to display all records from Account table having Balance

greater than 50,000.

\*/

CREATE DATABASE BankD;

USE BankD;

CREATE TABLE Account (

Account\_No INT PRIMARY KEY,

Cust\_Name VARCHAR(100),

Balance DECIMAL(10, 2),

NoOfYears INT

);

CREATE TABLE Earned\_Interest (

Account\_No INT,

Interest\_Amt DECIMAL(10, 2),

FOREIGN KEY (Account\_No) REFERENCES Account(Account\_No)

);

INSERT INTO Account (Account\_No, Cust\_Name, Balance, NoOfYears) VALUES

(101, 'Rahul Sharma', 60000.00, 5),

(102, 'Anjali Verma', 55000.00, 3),

(103, 'Kiran Patil', 45000.00, 4),

(104, 'Rajesh Gupta', 70000.00, 6),

(105, 'Sneha Joshi', 80000.00, 2);

DELIMITER //

CREATE PROCEDURE Calculate\_Interest (

p\_Account\_No INT,

p\_Interest\_Rate DECIMAL(5, 2)

)

BEGIN

DECLARE v\_Balance DECIMAL(10, 2);

DECLARE v\_Interest\_Amt DECIMAL(10, 2);

SELECT Balance INTO v\_Balance FROM Account WHERE Account\_No = p\_Account\_No;

SET v\_Interest\_Amt = (v\_Balance \* p\_Interest\_Rate \* (SELECT NoOfYears FROM Account WHERE Account\_No = p\_Account\_No)) / 100;

INSERT INTO Earned\_Interest (Account\_No, Interest\_Amt) VALUES (p\_Account\_No, v\_Interest\_Amt);

SELECT 'Account\_No: ' AS Account\_No, p\_Account\_No AS Account\_No\_Value, 'Interest\_Amt: ' AS Interest\_Amt, v\_Interest\_Amt AS Interest\_Amt\_Value;

END;

//

DELIMITER ;

DELIMITER //

CREATE PROCEDURE Get\_Accounts\_Above\_50000()

BEGIN

SELECT Account\_No, Cust\_Name, Balance, NoOfYears

FROM Account

WHERE Balance > 50000;

END;

//

DELIMITER ;

CALL Calculate\_Interest(101, 5);

CALL Get\_Accounts\_Above\_50000();