IT252: DBMS Assignment 2 By: Chikkeri Chinmaya(211IT017)

Q1)Write a PL/SQL procedure called multi_table that takes two numbers as parameter and displays the multiplication of the first parameter till the second parameter. Code:

```
mysql> CREATE DATABASE Test;
Query OK, 1 row affected (0.02 sec)
mysql> Use Test;
Database changed
mysql> DELIMITER //
mysql> CREATE PROCEDURE multi_table(a INT, b INT)
  -> DECLARE i INT DEFAULT 1;
 -> DECLARE mul INT;
  \rightarrow WHILE i <= b DO
  -> SET mul = a * i;
  -> SELECT CONCAT(a, '*', i, '=', mul);
 -> SET i = i + 1;
 -> END WHILE;
 -> END //
Query OK, 0 rows affected (0.02 sec)
mysql> DELIMITER;
mysql> CALL multi_table(6, 7);
```

Output:

Q2)Write a PL/SQL function called oddeven to retun 1 if the number passed to it is Even else will return false.

Code:

```
mysql> SET GLOBAL log_bin_trust_function_creators = 1;
Query OK, 0 rows affected (0.00 sec)
mysql> DELIMITER //
mysql>
mysql> CREATE FUNCTION oddeven(N INT)
 -> RETURNS TINYINT
  -> BEGIN
  -> DECLARE result TINYINT;
  -> IF N % 2 = 0 THEN
  -> SET result = 1;
  -> ELSE
  \rightarrow SET result = 0;
  -> END IF;
  -> RETURN result;
  -> END //
Query OK, 0 rows affected (0.02 sec)
mysql>
mysql> DELIMITER;
mysql> Select oddeven(5);
```

Output:

Returns 1 for even numbers Returns 0 for Odd numbers

```
Q3)Write a PL/SQL Block that will display the name, dept no, salary of the first highest paid
employee.
Code:
mysql> CREATE TABLE departments (
  -> dept_no INT PRIMARY KEY,
  -> dept_name VARCHAR(100)
Query OK, 0 rows affected (0.06 sec)
mysql> INSERT INTO departments (dept no, dept name) VALUES
  -> (1, 'Sales'),
  -> (2, 'Marketing'),
  -> (3, 'Analyst'),
  -> (4, 'HR'),
  -> (5, 'Coders');
Query OK, 5 rows affected (0.02 sec)
Records: 5 Duplicates: 0 Warnings: 0
mysql> CREATE TABLE employees (
  -> emp_id INT PRIMARY KEY AUTO_INCREMENT,
  -> emp_name VARCHAR(100),
  -> dept_no INT,
  -> salary DECIMAL(10, 2),
  -> FOREIGN KEY (dept_no) REFERENCES departments(dept_no)
Query OK, 0 rows affected (0.06 sec)
mysql> INSERT INTO employees (emp_name, dept_no, salary) VALUES
  -> ('Abin Mathews', 1, 4000.00),
  -> ('Smith Steven', 2, 5600.00),
  -> ('Bhuvan, 1, 3700.00),
  -> ('Sarah Thompson', 3, 7000.00),
  -> ('David Tames', 2, 6850.00),
  -> ('Wilson', 4, 4450.00);
Query OK, 6 rows affected (0.02 sec)
Records: 6 Duplicates: 0 Warnings: 0
Query:
mysql> SELECT emp_name, dept_no, salary
  -> FROM employees
  -> WHERE salary = (
  -> SELECT MAX(salary)
  -> FROM employees
  -> );
```

Output: