

DBMS Lab : Section 1

Lab Assignment-3

Date Given : 20-2-2020

Submission Date : 20-2-2020

Instructions for Submission:

You will be uploading your assignment in a single word file on LMS. In this word file, paste PL/SQL Blocks and screenshot of result.

- Write PL/SQL blocks for the following.
 1. Input any number and display following pattern. Ex., inputted number is 5, program should display 5 lines.

```
A B C D E
A B C D
A B C
A B
A
```

2. Input any name and display in following pattern.

```
S
S H
S H E
S H E F
S H E F A
S H E F A L
S H E F A L I
```

3. A travel agent has account customers and individual customers. Account customers who have spent over 25,000 euros in the past year get a discount of 25%. Otherwise, they get 10% discount. Individual customers who have booked holidays previously get 5% discount. New customers get no discount. Account customers who have spent over 10,000 euros in any previous year will receive offers of free tickets on selected routes. Display discount amount. Take required inputs from the user.

4. A certain steel is graded according to the results of three tests given below:
Carbon content < 0.7

Rockwell hardness > 50

Tensile strength > 30,000 kg./cm²

The steel is graded 10 if it passes all 3 tests, 9 if it passes only tests 1 and 2, 8 if it passes only test 1 and 7 if it passes none of the tests. Find grade of a steel on the basis of criterion given.

5. An insurance company uses the following rules to determine the eligibility of a driver for insurance. The driver will be insured only if any of the following conditions is satisfied:

- The driver's annual income is more than Rs. 20000 and he is a married male.
- The driver's annual income is more than Rs. 20000 and he is a married and over 30.
- The driver's annual income is Rs. 20000 or less and the driver is a married female.
- The driver is a male and over 30.
- The driver is married and is 30 or above.
- In all other cases the driver is not insured.

Display whether driver will get insurance or not.

6. Input any date. Extract and display day and month from this date. Also extract year and display which would be the next leap year.

7. Input any number. Display whether the number is palindrome or not.

8. Input any number to generate following series.

0	2	3	6	10	15.....	
0	1	1	2	3	5	8.....

9. Input any string to display total no. of consonants in that string.

10. Input basic salary. Calculate and display net salary on the basis of the conditions given below.

DA = 53% of basic salary

HRA = 20% of (basic salary+DA)

PF=10% of (basic salary+DA)

PT=200 if basic salary>70000

=100 if basic salary<=70000 and >50000

=50 if basic salary<=50000 and >20000

=20 if basic salary<=20000 and >10000

MA=500

TA=2000

Total allowances=DA+HRA+MA+TA

Total deductions=PF+PT

Net Salary=Basic salary+allowances-deductions