**DBMS Lab Assignment-4**

**Date Given : 5-March-2020 Submission Date : 15-March-2020**

**Instructions for Submission:**

You will be uploading your assignment in a single word file on LMS with the question, answer and screenshots of outputs.

1. An insurance company follows the following rules to calculate premium.
   1. If a person’s health is excellent and the person is between 25 and 35 years of age and lives in a city and is a male then the premium is Rs. 4 per thousand.
   2. If a person satisfies all the above conditions except that the gender is female then the premium is Rs. 3 per thousand.
   3. If a person’s health is poor and the person is between 25 and 35 years of age and lives in a village and is a male then the premium is Rs. 6 per thousand.
   4. In all other cases the person is not insured.

Write a PL/SQL block to input person’s health, age, city and gender. From the rules given above, display the message whether the person is insured or not. If insured, display premium amount.

1. Write a function to input any number. Check whether the inputted number is a Dudeney number or not and return appropriate message. (A Dudeney number is a positive integer that is a perfect cube such that the sum of its digits is equal to the cube root of the number. For ex., 512, 4913 are Dudeney numbers because 512=(5+1+2)3 and 4913=(4+9+1+3)3 )
2. Refer following table.

PERSON(person\_id, first\_name, middle\_name, last\_name, gender, birth\_date)

Write a procedure that will read records from the PERSON table. Calculate age from the given birth\_date field. Display all the names given in the PERSON table as per the conditions given below. For ex., if first\_name=Hemal, middle\_ name= Harshad, last\_name=Shah, and

* 1. If gender=female and age >12 then display it as Ms. Hemal Harshad Shah
  2. If gender=female and age<=12 then display it as Baby Hemal Harshad Shah
  3. If gender=male and age<=12 then display it as Master Hemal Harshad Shah
  4. If gender=male and age>12 then display it as Mr. Hemal Harshad Shah

1. Write a function to input employee’s working experience in no. of days. Calculate and return his/her joining date on the basis of this.
2. Refer following table.

Applicant (app\_id, app\_name, 10th\_marks, 12th\_marks)

Write a function to take applicant\_id as a parameter. Check whether the applicant is eligible to get admission or not. If he/she is eligible, return the message ‘Congratulations <<app\_name>>, you are eligible for admission’ else return ‘Regrets <<app\_name>> !, you are not eligible for admission’.

1. Refer following tables. Write a procedure to take from date and to date as inputs and display the following details in prescribed format.

Student(std\_id, std\_name)

Assignment(assignment\_no, date\_given, last\_date\_of\_submission)

Submission(std\_id, assignment\_no, submitted\_on\_date)

Note : Display “late” or “on time” in the status depending on the field submitted\_on\_date and last\_date\_of\_submission.

<<current\_date>>

ASSIGNMENTS SUBMITTED BETWEEN <<from\_date>> AND <<to\_date>>

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Student\_Name Assignment\_no Date\_of\_submission Status

1. Refer following tables.

Student(std\_id, std\_name)

Assignment(assignment\_no, date\_given, last\_date\_of\_submission)

Submission(std\_id, assignment\_no, submitted\_on\_date)

Write a procedure to display summary in the following format.

<<current\_date>>

Summary of Assignment Submission

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Total no. of assignments given till date : \_\_\_\_\_\_\_\_\_\_\_

Assignments which are submitted by all the students on time : \_\_\_\_\_\_\_\_\_\_\_\_

Assignments which are submitted by all the students on time or late : \_\_\_\_\_\_\_\_\_\_\_\_

Student names who have submitted all the assignments on time : \_\_\_\_\_\_\_\_\_\_\_\_

Student names who have not submitted any of the assignments : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Refer following tables.

Category(category\_id, category\_name)

Event(event\_id, event\_name, category\_id)

Write a function which will take category\_name as a parameter and will return all event names of that category.

1. Refer following tables.

Category(category\_id, category\_name)

Event(event\_id, event\_name, category\_id)

Write a procedure to display category-wise events in the descending order of category and ascending order of events within each category in the following format.

<<current\_date>>

Category-wise list of events

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Category Name : <<category\_name>>

Event Name

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Total no of events in the category <<category\_name>> : \_\_\_\_\_\_\_\_\_\_

Category Name : <<category\_name>>

Event Name

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Total no of events in the category <<category\_name>> : \_\_\_\_\_\_\_\_\_\_

Total no of categories : \_\_\_\_\_\_\_\_\_\_\_\_\_

1. Refer following tables.

Category(category\_id, category\_name)

Event(event\_id, event\_name, category\_id)

Participant(participant\_id, participant\_name, event\_id, gender)

Write a procedure to display participation report with summary in the following format.

<<current\_date>>

PARTICIPATION DETAILS

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Event name : \_\_\_\_\_\_\_\_\_\_\_\_\_

Sr No. Participant name

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Total no of participants in the event <<event\_name>> are : \_\_\_\_\_\_\_\_\_

Event name : \_\_\_\_\_\_\_\_\_\_\_\_\_

Sr No. Participant name

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Total no of participants in the event <<event\_name>> are : \_\_\_\_\_\_\_\_\_

Total no of participants who are girls : \_\_\_\_\_\_\_\_\_\_\_\_\_

Total no of participants who are boys : \_\_\_\_\_\_\_\_\_\_\_\_\_

Overall total no. of participants : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The maximum participation is in the event \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and the minimum participation is in the event\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.