

EXAMINATION QUESTION PAPER

PG-DAC FEB 2020

Module Name : Database Technologies

DATE: 24 /12 / 2020

Duration: 2 hrs.

Max. Marks: 40

Instructions:

- ☐ All Questions are compulsory.
 - ☐ Write all the answers in a text file.
 - ☐ Have proper indentation for all the answers.
 - ☐ Your code should be properly commented.
 - ☐ Kindly ensure before creating a zip file, make sure all the required files should be closed to avoid any corruption of the zip file.
 - ☐ Zip File should be renamed with FULL PRN No. of the candidate. (For example 200240120001.zip)
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Q1. IMPORT THE TEST.SQL FILE AND SOLVE THE FOLLOWING QUERIES –

[25 MARKS]

1. DISPLAY STUDENT NO. AND TOTAL MARKS OF EACH STUDENT HAVING TOTAL MARKS GREATER THAN 160.
2. DISPLAY STUDENT NAME (FORENAME + SURNAME), MODULE NAME, AND MARK OF STUDENTS HAVING MARK GREATER THAN THE MARK OF EMILE ZOLA IN THE DATABASES MODULE USING JOINS.
3. CREATE A FOREIGN KEY CONSTRAINT ON THE 'STUDENT_NO' COLUMN OF THE MARKS TABLE ASSUMING 'STUDENT_NO' IS THE PRIMARY KEY OF THE STUDENT TABLE.
4. WRITE A FUNCTION TO TAKE THE INPUT AS MARK AND RETURN THE GRADE.
GRADE IS A IF MARK IS 80 AND ABOVE
ELSE GRADE IS B IF MARK IS IN RANGE 65 TO 80
ELSE GRADE IS C IF MARK IS IN RANGE 50 TO 64
OTHERWISE, FAIL IF MARK < 50.
5. WRITE A STORED PROCEDURE TO DISPLAY ALL THE TABLES WHOSE NAME STARTS WITH M.

Q2. IMPORT THE EMP.CSV FILE AND SOLVE THE FOLLOWING QUERIES USING MONGODB –

[15 MARKS]

1. DISPLAY EMPLOYEE NAME WHOSE SALARY(SAL) GREATER THAN 2000.
2. INSERT A RECORD IN THE EMP COLLECTION. (ASSUME EMPLOYEE DETAILS)
3. DELETE THE RECORD OF THE EMPLOYEE WHOSE NAME IS FORD.

***** ALL THE BEST!!!! *****