

EXAMINATION QUESTION PAPER

PG-DAC 0322

EXAM Type : Main Module Name : DBT Set : __

DATE: 03-04-22 **Duration:** 2 hours **Max. Marks:** 40

Instructions:

1. Enable the camera when asked for and share your screen as well - WHEN ASKED for it during the exam.

https://us02web.zoom.us/meeting/register/tZ0kfu2tpjMtGd0kjJ29E1-_PcreLjNwMJra

- 2. Create a folder with your PRN number and add a word file in it named as your PRN itself.
- 3. Paste all the queries in the word file and the output's screenshots as well.
- 4. Upload the WORD FILE on the provided Google form link

*** PLEASE TRY TO USE THE BELOW DATABASE IF WHILE CREATING THE DATABASE SOME ISSUE CAME TRY TO USE SIMILAR COLUMNS TABLES WHICH IS PRESNET ON LOCAL**

```
CREATE DATABASE ORG;
SHOW DATABASES:
USE ORG;
CREATE TABLE Worker (
     WORKER_ID INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
     FIRST NAME CHAR(25),
     LAST NAME CHAR(25),
     SALARY INT(15),
     JOINING DATE DATETIME,
     DEPARTMENT CHAR(25)
);
INSERT INTO Worker
     (WORKER_ID, FIRST_NAME, LAST_NAME, SALARY, JOINING_DATE, DEPARTMENT) VALUES
           (001, 'Monika', 'Arora', 100000, '14-02-20 09.00.00', 'HR'),
          (002, 'Niharika', 'Verma', 80000, '14-06-11 09.00.00', 'Admin'),
          (003, 'Vishal', 'Singhal', 300000, '14-02-20 09.00.00', 'HR'),
           (004, 'Amitabh', 'Singh', 500000, '14-02-20 09.00.00', 'Admin'),
          (005, 'Vivek', 'Bhati', 500000, '14-06-11 09.00.00', 'Admin'),
          (006, 'Vipul', 'Diwan', 200000, '14-06-11 09.00.00', 'Account'),
          (007, 'Satish', 'Kumar', 75000, '14-01-20 09.00.00', 'Account'),
          (008, 'Geetika', 'Chauhan', 90000, '14-04-11 09.00.00', 'Admin');
CREATE TABLE Bonus (
     WORKER_REF_ID INT,
     BONUS AMOUNT INT(10),
     BONUS_DATE DATETIME,
     FOREIGN KEY (WORKER_REF_ID)
           REFERENCES Worker(WORKER_ID)
    ON DELETE CASCADE
);
```

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```
INSERT INTO Bonus
     (WORKER_REF_ID, BONUS_AMOUNT, BONUS_DATE) VALUES
           (001, 5000, '16-02-20'),
           (002, 3000, '16-06-11'),
           (003, 4000, '16-02-20'),
           (001, 4500, '16-02-20').
           (002, 3500, '16-06-11');
CREATE TABLE Title (
     WORKER_REF_ID INT,
     WORKER_TITLE CHAR(25),
     AFFECTED FROM DATETIME,
     FOREIGN KEY (WORKER_REF_ID)
           REFERENCES Worker(WORKER_ID)
    ON DELETE CASCADE
);
INSERT INTO Title
     (WORKER_REF_ID, WORKER_TITLE, AFFECTED_FROM) VALUES
(001, 'Manager', '2016-02-20 00:00:00'),
(002, 'Executive', '2016-06-11 00:00:00'),
(008, 'Executive', '2016-06-11 00:00:00'),
(005, 'Manager', '2016-06-11 00:00:00'),
(004, 'Asst. Manager', '2016-06-11 00:00:00'),
(007, 'Executive', '2016-06-11 00:00:00').
(006, 'Lead', '2016-06-11 00:00:00'),
(003, 'Lead', '2016-06-11 00:00:00');
```

OUESTIONS

1 SOLVE THE BELOW QUESTIONS EACH QUESTION OF 2 MARKS

i. WRITE AN SQL QUERY TO FETCH FULLNAME , SALARY , JOINING_DATE AND DEPARTMENT FROM WORKER TABLE.

 $\mbox{ii.W}$ RITE AN SQL QUERY TO FETCH ID , FULLNAME , SALARY AND DEPARTMENT WHOSE DEPARTMENT IS HR OR ADMIN

iii.WRITE AN SQL QUERY TO FETCH ID , FULLNAME , SALARY WHOSE FIRST_NAME ENDS WITH 'a'
 iv. WRITE AN SQL QUERY TO FEACH ALL RECORDS OF WORKER TABLE WHO HAVE JOIN IN FEB 2020
 V. WRITE AN SQL QUERY TO FEACH ALL RECORDS OF WORKER TABLE WHO HAVE SALARY >=50000
 AND <=100000.

2 SOLVE THE BELOW QUESTIONS EACH QUESTION OF 3 MARKS

i. WRITE AN SQL QUERY TO DISPLAY NUMBER OF WORKER IN EACH DEPARTMENT ALONG WITH UNIOUE DEPARTMENT NAME

ii.WRITE AN SQL QUERY TO DISPLAY DEPARTMENT NAME AND TOTAL BONUS AMOUNT TO BE PAID IN EACH DEPARTMENT

 ${\it iii.}$ WRITE AN SQL QUERY TO DISPALY THE FULLNAME , SALARY , TOTAL YEARS OF EXPERIANCE OF EACH WORKER

iv. WRITE AN SQL QUERY TO DISPALY THE DETAILS OF THE WORKER WHO IS MANAGER

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3 SOLVE THE BELOW QUESTIONS EACH QUESTION OF 4 MARKS

```
i.
    CREATE SAMPLE DB IN MONGO DATABASE
        -CREATE COLLECTION IN SIMPLE_DB AS MY_COL
         INSERT THE BELOW DATA
          db.mycol.insert([
              title: "MongoDB Overview",
              description: "MongoDB is no SQL database",
              by: "tutorials point",
              url: "http://www.tutorialspoint.com",
              tags: ["mongodb", "database", "NoSQL"],
              likes: 100
         },
              title: "NoSQL Database",
              description: "NoSQL database doesn't have tables",
              by: "tutorials point",
              url: "http://www.tutorialspoint.com",
              tags: ["mongodb", "database", "NoSQL"],
              likes: 20,
              comments: [
                   {
                       user:"user1",
                       message: "My first comment",
                       dateCreated: new Date(2013,11,10,2,35),
                       like: 0
                   }
              1
         }
      1)
       1.SHOW THE DOCUMENTS THAT HAS LIKES GREATER THAN 10
      2.SHOW THE DOCUMENTS THAT HAS USER NAME AS 'user1'
 ii. CREATE A FUNCTION IN MYSQL THAT WILL ACCEPT THE ONE INPUT PARAMETER AS WORKER ID
AND BASED ON THE ID
  RETURN THE TOTAL SALARY IN EACH DEPARTMENTS
4 CREATE A CURSOR IN MYSQL, BY USING THE CURSOR RETURN THE COMMA SEPRATED LIST OF
WORKER NAMES
                                                                            5 MARKS
 eg. Monika, Vishal, Satish, Vipul.....
5 CREATE A AFTER INSERT TRIGGER IN MYSQL
                                                                            5 MARKS
 CREATE AN EMP_DETAILS TABLES AS FOLLOWS
 ID, FIRST_NAME, LAST_NAME, DEPARTMENT_ID, SALARY
 WHEN AN INSERT HAPPEN INTO THE EMP DETAILS TABLE INSERT THE FIRST NAME, LAST NAME
AND SALARY INTO THE
  EMP LOG DETAILS TABLE
```

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