TOLANI COLLEGE OF COMMERCE(AUTONOMOUS)
S.Y.B.Sc. INFORMATION TECHNOLOGY (Semester III)
(Regular Practical) EXAMINATION
FIRST HALF 2024
DATABASE MANAGEMENT SYSTEMS

Seat No:_____ **Max Marks: 20**

<table>
<tr><td>Q1</td><td>Create the following table and insert 5 five meaningful records in each table.
<table>
<tr><td colspan="3">EMPLOYEE_DATA</td></tr>
<tr><th>Attribute</th><th>Datatype</th><th>Constraint</th></tr>
<tr><td>Empid</td><td>INT</td><td>Primary key</td></tr>
<tr><td>Empname</td><td>Varchar(15)</td><td></td></tr>
<tr><td>Manager_id</td><td>INT</td><td></td></tr>
<tr><td>Dept_id</td><td>INT</td><td></td></tr>
<tr><td>Salary</td><td>INT</td><td></td></tr>
</table></td><td>8</td></tr>
<tr><td>Q2</td><td>Perform the following queries on the above table
A. Display the employee name along with their department id.(select E.Empname,E.Deptid from employee_data AS E;)
B. List all the employees whose name starts with ‘S”.(select * from employee_data where Empname like 'S%';)
C. Add a new column phone number in the emp table.(alter table employee_data add phone_number int(20);)
D. List all the employees those who are getting the same salary.(select * from employee_data WHERE Salary = (Select Salary FROM employee_data group by Salary HAVING COUNT(*)>1);)</td><td>8</td></tr>
<tr><td>Q4</td><td>Viva</td><td>2</td></tr>
<tr><td>Q5</td><td>Journal</td><td>2</td></tr>
</table>

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Seat No:_____ **Max Marks: 20**

<table>
<tr><td>Q1</td><td>Create the following table and insert 5 five meaningful records in each table.
<table>
<tr><td colspan="3">STUDENT</td></tr>
<tr><th>Attribute</th><th>Datatype</th><th>Constraint</th></tr>
<tr><td>Rollno</td><td>INT</td><td>Primary key</td></tr>
<tr><td>Fname</td><td>Varchar(15)</td><td></td></tr>
<tr><td>Lname</td><td>Varchar (15)</td><td></td></tr>
<tr><td>Course_name</td><td>Varchar (15)</td><td>NOT NULL</td></tr>
<tr><td>Major</td><td>Varchar (15)</td><td></td></tr>
<tr><td>Email_id</td><td>Varchar (15)</td><td></td></tr>
</table></td><td>8</td></tr>
<tr><td>Q2</td><td>Perform the following queries on the above table
A. Display the total number of student enrolled in BSCIT.(select * from table where Course_name = ‘BSCIT’;)
B. Display the total number of student enrolled in each course.(select course_name, COUNT(*) from student group by course_name;)
C. List the names of all the courses except course BSC (Computer science).(select * from table where First_Name NOT LIKE ' BSC (Computer science)’;)
D. List the students having their email_id with @yahoo.co.in.(select * from table where email_id LIKE ‘@yahoo.co.in’;)</td><td>8</td></tr>
<tr><td>Q4</td><td>viva</td><td>2</td></tr>
<tr><td>Q5</td><td>Journal</td><td>2</td></tr>
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Seat No: **Max Marks: 20**

Q1	Create the following table and insert 5 five meaningful records in each table:	**8**

CUSTOMER

Attribute	Datatype	Constraint
Custid	INT(4)	Primary key
Lname	Varchar(15)	
Fname	Varchar(15)	
Area	Varchar(10)	
Phone	INT (8)	

MOVIE

Attribute	Datatype	Constraint
Custid	INT (2)	Primary key
Title	Varchar(25)	
Type	Varchar(10)	
Star	Varchar(25)	
Price	INT(10)	

Q2	Perform the following queries on the above table: A) Find the names of customers whom have been issued movie type drama.(select C.Fname , C.Lname , M.type from CUSTOMER AS C JOIN MOVIE AS M ON C.Custid = M.Custid WHERE M.type = 'Drama';) B) Display the customer name along with title of the movie.(SELECT C.Fname, C.Lname, M.Title FROM CUSTOMER C JOIN MOVIE M ON C.Custid = M.Custid;) C) Display the name of all the customers whose name stars with ‘’A.(select * from table where customer like ‘A%’) D) Add a column age to the customer table. (alter table employee add column int(20);)	**8**
Q4	Viva	**2**
Q5	Journal	**2**

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<table>
<tr><td>Q1</td><td>Create the following table and insert 5 five meaningful records in each table.

EMPLOYEE_DATA
<table><tr><th>Attribute</th><th>Datatype</th><th>Constraint</th></tr><tr><td>Empid</td><td>INT</td><td>Primary key</td></tr><tr><td>Empname</td><td>Varchar(15)</td><td></td></tr><tr><td>Manager_id</td><td>INT</td><td></td></tr><tr><td>Dept_id</td><td>INT</td><td></td></tr><tr><td>Salary</td><td>INT</td><td></td></tr></table>
DEPT
<table><tr><th>Attribute</th><th>Datatype</th><th>Constraint</th></tr><tr><td>Dept_id</td><td>Number</td><td>Primary key</td></tr><tr><td>Dept_name</td><td>Varchar2(15)</td><td></td></tr></table></td><td>8</td></tr>
<tr><td>Q2</td><td>Perform the following queries on the above table
A. Display the employee name along with their managers name(Department name).(select E.Dept_id , E.Empname , D.Dept_name FROM EMPLOYEE_DATA AS E JOIN DEPT AS D ON E.Dept_id = D.Dept_id ;)
B. List all the employees whose name starts with ‘S” .(select * from table where customer like ‘S%’)
C. Add a new column Hiredate in the emp table. (alter table employee add HireDate int(20);)
D. Display the name of each employee who draws the maximum salary in their respective department.</td><td>8</td></tr>
<tr><td>Q4</td><td>Viva</td><td>2</td></tr>
<tr><td>Q5</td><td>Journal</td><td>2</td></tr>
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<table>
<tr><td>Q1</td><td>Create the following table and insert 5 five meaningful records in each table.

STUDENT
<table><tr><th>Attribute</th><th>Datatype</th><th>Constraint</th></tr><tr><td>Rollno</td><td>INT</td><td>Primary key</td></tr><tr><td>Fname</td><td>Varchar(15)</td><td></td></tr><tr><td>Lname</td><td>Varchar(15)</td><td></td></tr><tr><td>Course_Id</td><td>Varchar(15)</td><td></td></tr><tr><td>Major</td><td>Varchar(15)</td><td></td></tr><tr><td>Age</td><td>INT</td><td></td></tr></table>
COURSES
<table><tr><th>Attribute</th><th>Datatype</th><th>Constraint</th></tr><tr><td>Course_id</td><td>INT</td><td>Primary key</td></tr><tr><td>Course_name</td><td>Varchar(15)</td><td></td></tr></table></td><td>8</td></tr>
<tr><td>Q2</td><td>Perform the following queries on the above table
A) Display the course name along with the Fname and rollno of the student whose age is greater than 25.(select CONCAT(Fname,rollno)from table where age>25;)
B) Display the total number of student enrolled in each course except BSCIT.(select count(course) from table where course NOT LIKE ‘BSCIT’ ;)
C) List the details of all the student whose course name begin with letter “B”.(select S.Fname,S.Lname, C.Course_name from student as S JOIN COURSES AS C ON S.Course_ID = C.Course_Id where C.Course_name LIKE ‘B%’;)</td><td>8</td></tr>
<tr><td>Q4</td><td>Viva</td><td>2</td></tr>
<tr><td>Q5</td><td>Journal</td><td>2</td></tr>
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Q1 Create the following table and insert 5 five meaningful records in each table. **8**

CUSTOMER

Attribute	Datatype	Constraint
Custid	INT(4)	Primary key
Lname	Varchar(15)	
Fname	Varchar (15)	
Area	Varchar (10)	
Phone	INT (10)	

MOVIE

Attribute	Datatype	Constraint
Mvno	INT (2)	Primary key
Title	Varchar (25)	
Type	Varchar (10)	
Star	Varchar (25)	
Price	INT (10)	

INVOICE

Attribute	Datatype	Constraint
Invno	INT (4)	Primary key
Mvno	INT (2)	
Custid	INT (4)	
Issuedate	Date	

Q2 Perform the following queries on the above table: **8**

A) Find the names of customers whom have been issued movie type Horror.(select C.Fname,C.Lname , M.type from customer AS C JOIN INVOICE I ON C.Custid = I.Custid JOIN MOVIE M ON I.Myno = M.Myno WHERE M.Type = 'Horror' ;

B) Display the customer name along with type of the movie.(SELECT C.Fname, C.Lname, M.Type FROM CUSTOMER C JOIN INVOICE I ON C.Custid = I.Custid JOIN MOVIE M ON I.Mvno = M.Mvno;)

C) List mvno, title, type of movie whose star's name begin with letter "M".(SELECT M.Myno,M.Star, M.Title, M.Type FROM MOVIE M WHERE M.Star LIKE 'M%';)

D) List the names of all the movies except horror movies.(select * from movie where Type != 'Horror')

Q4 Viva **2**

Q5 Journal **2**

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<table>
<tr><td>Q1</td><td>Create the following table and insert 15 fifteen meaningful records in each table.
<table>
<tr><td colspan="3">Emp</td></tr>
<tr><th>Attribute</th><th>Datatype</th><th>Constraint</th></tr>
<tr><td>Empno</td><td>INT</td><td>Primary key</td></tr>
<tr><td>Ename</td><td>Varchar(15)</td><td></td></tr>
<tr><td>HireDate</td><td>Date</td><td></td></tr>
<tr><td>Deptno</td><td>INT</td><td>NOT NULL</td></tr>
<tr><td>Gender</td><td>Varchar</td><td></td></tr>
<tr><td>Salary</td><td>INT</td><td></td></tr>
<tr><td>Commission</td><td>INT</td><td></td></tr>
</table></td><td>8</td></tr>
<tr><td>Q2</td><td>Perform the following queries on the above table
A) Find the number of unique departments from emp table.(select COUNT(DISTINCT Deptno) from table;)(NOT SURE)
B) Display department wise total salary from the emp table such that only those departments are displayed where the total salary is greater than 20,000.(select Deptno,SUM(Salary) from employee_data GROUP BY Dept_id HAVING SUM(Salary) > 20000;)
C) List the name of all the employees whose salary is not between 10,000 and 20,000.(select * from table where salary NOT BETWEEN 10000 AND 20000;)</td><td>8</td></tr>
<tr><td>Q4</td><td>Viva</td><td>2</td></tr>
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<tr><td>Q1</td><td>Create the following table and insert 5 five meaningful records in each table.
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<tr><td colspan="3">Emp</td></tr>
<tr><th>Attribute</th><th>Datatype</th><th>Constraint</th></tr>
<tr><td>Empno</td><td>INT</td><td>Primary key</td></tr>
<tr><td>Ename</td><td>Varchar(15)</td><td></td></tr>
<tr><td>HireDate</td><td>Date</td><td></td></tr>
<tr><td>DOB</td><td>Date</td><td></td></tr>
<tr><td>Manager_id</td><td>INT</td><td></td></tr>
<tr><td>Deptno</td><td>INT</td><td>NOT NULL</td></tr>
<tr><td>Gender</td><td>Varchar</td><td></td></tr>
<tr><td>Salary</td><td>INT</td><td></td></tr>
<tr><td>Commission</td><td>INT</td><td></td></tr>
</table></td><td>8</td></tr>
<tr><td>Q2</td><td>Perform the following queries on the above table
A) Calculate the total number of employees working under each Manager.(SELECT Manager_id, COUNT(*) from emp group by Manager_id;)
B) Display the age of each employee.(SELECT Ename, YEAR(CURDATE()) - YEAR(DOB) AS Age from emp;)
C) List the name of all the employees who have joined after ‘1 January 2010’(select Ename from emp where HireDate > '2010-01-01';)</td><td>8</td></tr>
<tr><td>Q4</td><td>Viva</td><td>2</td></tr>
<tr><td>Q5</td><td>Journal</td><td>2</td></tr>
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<table>
<tr><td>Q1</td><td>Create the following table and insert 5 five meaningful records in each table.

Product
<table><tr><th>Attribute</th><th>Datatype</th><th>Constraint</th></tr><tr><td>Product_id</td><td>INT</td><td>Primary key</td></tr><tr><td>Product _name</td><td>Varchar(15)</td><td></td></tr><tr><td>Company_name</td><td>Varchar(15)</td><td></td></tr><tr><td>Unit_price</td><td>INT</td><td></td></tr><tr><td>Quantity</td><td>INT</td><td></td></tr></table>
Order_product
<table><tr><th>Attribute</th><th>Datatype</th><th>Constraint</th></tr><tr><td>Order_id</td><td>INT</td><td>Primary key</td></tr><tr><td>Product_id</td><td>INT</td><td></td></tr><tr><td>Total_units</td><td>INT</td><td></td></tr><tr><td>Customer_name</td><td>Varchar(15)</td><td></td></tr></table></td><td>8</td></tr>
<tr><td>Q2</td><td>Perform the following queries on the above table
A) Display the details of the product that have been not ordered by any customer.(select P.product_id,P.product_name , C.Customer_name from product as P Join Order_product As C ON P.Product_id = C.Product_id Where C.Customer_name LIKE 'NULL';)
B) Get the names of the products which have lowest price.(SELECT Product_name FROM Product where Unit_price = (select Min(Unit_price) from product);)
C) Get the details of the product which has the highest unit price.(SELECT Product_name FROM Product where Unit_price = (select Max(Unit_price) from product);)
D) List the name of the customers those who have been ordered the same product.</td><td>8</td></tr>
<tr><td>Q4</td><td>Viva</td><td>2</td></tr>
<tr><td>Q5</td><td>Journal</td><td>2</td></tr>
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<table>
<tr><td>Q1</td><td>Create table with following attributes and insert the following columns into it & perform the following queries onto it:-

<table><tr><th>ID</th><th>LAST_NAME</th><th>FIRST_NAME</th><th>USERID</th><th>SALARY</th></tr><tr><td>1</td><td>Patel</td><td>Ralph</td><td>rpatel</td><td>895</td></tr><tr><td>2</td><td>Dancs</td><td>Betty</td><td>bdancs</td><td>860</td></tr><tr><td>3</td><td>Biri</td><td>Ben</td><td>bbiri</td><td>1100</td></tr><tr><td>4</td><td>Newman</td><td>Chad</td><td>cnewman</td><td>750</td></tr><tr><td>5</td><td>Ropeburn</td><td>Audrey</td><td>aropebur</td><td>1550</td></tr></table></td><td>8</td></tr>
<tr><td>Q2</td><td>A) Change the last name of employee 3 to Drexler.(UPDATE Emp SET Ename = 'Drexler' WHERE Empno = 3;)
B) Change the salary to 1000 for all employees with a salary less than 900.(UPDATE Emp set Salary = 1000 WHERE Salary < 900;)
C) Delete Betty Dancs from the MY_EMPLOYEE table.(DELETE from table where ID = 2;)
D) Create the EMPLOYEES2 table based on the structure of the EMPLOYEES table. Include only the EMPLOYEE_ID, FIRST_NAME, LAST_NAME, SALARY, and DEPARTMENT_ID columns. Name the columns in your new table ID, FIRST_NAME, LAST_NAME, SALARY, and DEPT_ID, respectively.(CREATE TABLE EMPLOYEES2 (ID INT PRIMARY KEY, FIRST_NAME VARCHAR(15), LAST_NAME VARCHAR(15), SALARY INT, DEPT_ID INT);)
E) Drop the FIRST_NAME column from the EMP table. Confirm your modification by checking the description of the table.(alter table emp DROP COLUMN Gender;)</td><td>8</td></tr>
<tr><td>Q4</td><td>Viva</td><td>2</td></tr>
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1.	**Create the following tables:** **Customer (custid,cfname,clname,contact)** **Movie(movieno,movietype,actor, title,price)** **Invoice (custid,movieno,returndate)** **Insert Records Appropriately: 10 records** **Write SQL statements for the following:** 1. List the various movie types available.(SELECT DISTINCT movietype FROM MOVIE;) 2. List the mvno, title of movies whose stars begins with letter 'm'.(SELECT movieno, title FROM MOVIE WHERE actor LIKE 'm%';) 3. Determine the maximum and minimum of price. Rename the title as max-price and min_price respectively.(SELECT MAX(price) AS max_price, MIN(price) AS min_price FROM MOVIE;) **4.** Find out the movies that cost more than 150 .(SELECT movieno, title FROM MOVIE WHERE price > 150;) 5. Find out number of movies in each type.(SELECT movietype, COUNT(*) AS num_movies FROM MOVIE GROUP BY movietype;)	**8**
2.	Write a PL/SQL block to display the sum of two numbers	**8**
3.	Viva	**2**
4.	Journal	**2**

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1.	**Create the following Tables:** Emp (Empid , Ename , CompID , Salary , Joindate , Gender,dob) Company (CompID , CompName , City) Department(d_id,d_name,area) **Insert Records Appropriately:** **Write SQL statements to achieve the following:** 1. Update salary of employee 'Raj' by giving him the salary of 'Radha' working in same company. 2. Display how many male and female members have joined in January 2004. 3. Display the total number of companies located in each city. 4. Display the name, hiredate and salary for all worker who have the same salary as that of Gupta. 5. Display the name of the worker who earns the third highest salary. 6. Display the workers hired between the years 2000 and 2005 and salaries between 25000 and 35000.	**8**
2.	Write a PL/SQL program to check whether a given number is positive, negative or zero.	**8**
3.	Viva	**2**
4.	Journal	**2**

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1.	Create the table Employee with 15 records and perform all the different types of constraints used in MySql.(MANUAL PDF PAGE 25 ONWARDS)	**8**
2.	Write a PL/SQL program to define the passing criteria using case statement.	**8**
3.	Viva	**2**
4.	Journal	**2**

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1.	Create the following tables and perform inner and outer joins operations. Innerjoin:(select pd.product_id,pd.product_name,sd.customer_name,sd.quantity,pd.price from product_details AS pd INNER JOIN sale_details AS sd ON pd.product_id=sd.product_id;) Left outer join: (select pd.product_id,pd.product_name,sd.customer_name from product_details AS pd LEFT OUTER JOIN sale_details AS sd ON pd.product_id = sd.product_id;) Right outer join: (select pd.product_id,pd.product_name,sd.customer_name from product_details AS pd RIGHT OUTER JOIN sale_details AS sd ON pd.product_id = sd.product_id;) **NOTE- The Output of left and right outer join is same here.**	**8**
2.	Write a PL/SQL program to display the table of 5 using for loop.	**8**
3.	Viva	**2**
4.	Journal	**2**

```
mysql> select * from product_details;
+------------+--------------+----------+-------+
| product_id | product_name | quantity | price |
+------------+--------------+----------+-------+
|       1001 | pendrive     |      100 |   900 |
|       1002 | harddisk     |      200 |  4000 |
|       1003 | headphone    |     1000 | 15000 |
|       1004 | DVD          |       20 |  1000 |
|       1005 | speaker      |      600 |  2400 |
+------------+--------------+----------+-------+
5 rows in set (0.00 sec)

mysql> select * from sale_details;
+---------+------------+----------+-------+---------------+
| sale_no | product_id | quantity | price | customer_name |
+---------+------------+----------+-------+---------------+
|    2001 |       1001 |       50 |   900 | savni         |
|    2002 |       1004 |       10 |  1000 | savni         |
|    2003 |       1003 |      120 | 15000 | savni         |
|    2004 |       1005 |      420 |  2400 | harsh         |
|    2005 |       1002 |       40 |  4000 | Akash         |
+---------+------------+----------+-------+---------------+
```

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1.	Create the following table and perform all the aggregate data using group functions. (count,sum,min,max,avg,) mysql> select * from Employee2; +--------+------------+-----------+--------+--------+ | Emp_no | First_name | Last_name | city | salary | +--------+------------+-----------+--------+--------+ | 101 | Rajesh | powar | pune | 15000 | | 102 | Vedant | jadhav | mumbai | 25000 | | 103 | Swati | patil | mumbai | 15000 | | 104 | Smar | sawant | nagpur | 28000 | | 105 | Swaraj | sawant | nagpur | 20000 | +--------+------------+-----------+--------+--------+	**8**
2.	Create the following table and perform all the SET operations and group by clause. (union,union all,intersect,minus,date time functions,pdf pg 40) mysql> select * from product_details; +------------+--------------+----------+-------+ | product_id | product_name | quantity | price | +------------+--------------+----------+-------+ | 1001 | pendrive | 100 | 900 | | 1002 | harddisk | 200 | 4000 | | 1003 | headphone | 1000 | 15000 | | 1004 | DVD | 20 | 1000 | | 1005 | speaker | 600 | 2400 | +------------+--------------+----------+-------+ 5 rows in set (0.03 sec) mysql> select * from sale_details; +---------+------------+----------+-------+---------------+ | sale_no | product_id | quantity | price | customer_name | +---------+------------+----------+-------+---------------+ | 2001 | 1001 | 50 | 900 | savni | | 2002 | 1004 | 10 | 1000 | savni | | 2003 | 1003 | 120 | 15000 | savni | | 2004 | 1005 | 420 | 2400 | harsh | | 2005 | 1002 | 40 | 4000 | Akash | +---------+------------+----------+-------+---------------+	**8**
3.	Viva	**2**
4.	Journal	**2**