FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)® DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CSL 333 DATABASE MANAGEMENT SYSTEMS LAB

Internal Exam (S5 CS A- Admission Year 2020)

Academic Year 2022-23

Batch 1 (Date: 06/01/23)

1. A bus reservation database system contains the following tables.

Bus(Bus no (PK), arrival, departure, seats)

Reservation(Bus no(FK), PassengersName, age, date of travel)

Create the tables and insert values.

- a) Write a procedure to display the details when the bus no is specified.
- b) Write a procedure to display the details of passengers traveling in a bus on a particular date.
- c) Use a trigger to ensure that the reservation procedure will be successful only if seats are available.
- 2. Implement a library management system.

Student Table

Studen	it rabic								
REGNO	NAME	DEPT		CLASS		FINE		BOOKS	
Library_books Table									
BID	TITLE	;	AUTHOR		EDITION		COPIES		
Status Table									
REGNO	BI	BID		STATUS		ISSUE		RETURN	

- a) Procedure to issue a book
- b) Procedure to return a book
- c) Raise a trigger when a student tries to take more than 5 books
- d) Raise a trigger when the book is returned after the due date

Batch 2 (Date: 03/01/23)

- 1. Develop a query to create a table named STUDENT(Regno, name, mark1, mark2, total).
 - a. Insert 5 records with their total as 0.
 - b. Develop a procedure p1 with Regno, mark1, & mark2 as arguments. Calculate the total(mark1+mark2) and update the values in the STUDENT table.
 - c. Create a trigger that shows a message when the marks are below 40%.
- 2. <u>Implement billing system using the following tables</u>

Tables are as follows:

```
stock(item_code(PK),item_name, qty)
item_price (item_code (FK), price)
order(customer_name,item_name,item_code(FK), qty)
account(bill_no,customer_name,total_amt)
```

Insert appropriate data into tables stock and item_price

Write PL/SQL code

- a. To order an item (read customer name, item name, and qty)
- b. To generate the bill for a particular customer auto-generate the bill no field.
- c. Insert customer_name and total_amt into the account table. Update the stock table and display the invoice. If the billing amount is greater than Rs.500, give a 10% discount. (use trigger)

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