Sister Nivedita University

Department of Computer Science and Engineering DATABASE MANAGEMENT SYSTEM LAB

ASSIGNMENT 8

> Create the following tables with appropriate constraints using SQL command.

A) Table Name : Member

COLUMN NAME	DATA TYPE	DESCRIPTION	
Member_Id	Number(5)	Unique Member ID	
Member_Name	Varchar2(30)	Name of the Library member	
Member_address	Varchar2(50)	Address of the member	
Acc_Open_Date	Date	Date of membership	
Membership_type	Varchar2(20)	Type of the membership such as 'Lifetime','	
		Annual', 'Half Yearly',' Quarterly'	
Fees_paid	Number(4)	Membership fees paid	
Max_Books_Allowed	Number(2)	Total Number of books that can be issued to the	
		member.	
Penalty_Amount	Number(7,2)	Penalty amount due	

CONSTRAINT:

a. Member_Id – Primary Key

b. Member_Name – NOT NULL

c. Membership_type - 'Lifetime',' Annual', 'Half Yearly',' Quarterly'

d. Max_books_allowed <7

e. Penalty_amt maximum 1000

B) Table Name : **BOOKS**

COLUMN NAME	DATA TYPE	DESCRIPTION
Book_No	Number(6)	Book identification number
Book_Name	VarChar2(30)	Name of the book
Author_name	Varchar2(30)	Author of the book
Cost	Number(7,2)	Cost of the book
Category	Char(10)	Category like Science, Fiction etc.

CONSTRAINT:

a. Book_No - Primary Key

b. Book_Name – Not Null

c. Category – Science, Database, System, Others.

C) Table Name : <u>ISSUE</u>

COLUMN NAME	DATA TYPE	DESCRIPTION
Lib_Issue_Id	Number(10)	Library Book Issue No
Book_No	Number(6)	The ID of book, which is issued
Member_Id	Number(5)	Member that issued the book
Issue_Date	Date	Date of Issue
Return_date	Date	Return date

CONSTRAINT:

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- a. Lib_Issue_Id -Primary key
- b. Book_No foreign key
- c. Member_id foreign key
- > Insert the following data to the appropriate table using SQL command.

A. Table Name : Member

MEMB ER_ID	MEMBER_N AME	MEMBER_ ADDRESS	ACC_OPE N_DATE	MEMBERS HIP_TYPE	FEES_ PAID	MAX_BOOKS _ALLOWED	PENALTY_ AMOUNT
1	Sayantan Sinha	Pune	10-Dec-10	Lifetime	2000	6	50
2	Abhirup Sarkar	Kolkata	19-jan-11	Annual	1400	3	0
3	Ritesh Bhuniya	Gujarat	20-feb-11	Quarterly	350	2	100
4	Paresh sen	Tripura	21-mar-11	Half yearly	700	1	200
5	Sohini Haldar	Birbhum	11-apr-11	Lifetime	2000	6	10
6	Suparna Biswas	Kolkata	12-apr-11	Half Yearly	700	1	0
7	Suranjana Basu	Purulia	30-june-11	Annual	1400	3	50
8	Arpita Roy	Kolkata	31-july-11	Half yearly	700	1	0

B. Table Name : **BOOKS**

BOOK_NO	BOOK_NAME	AUTHOR_NAME	COST	CATEGORY
101	Let us C	Denis Ritchie	450	Others
102	Oracle – Complete Ref	Loni	550	Database
103	Visual Basic 10	BPB	700	Others
104	Mastering SQL	Loni	450	Database
105	PL SQL-Ref	Scott Urman	750	Database
106	UNIX	Sumitava Das	300	System
107	Optics	Ghatak	600	Science
108	Data Structure	G.S. Baluja	350	Others

C. Table Name: **ISSUE**

LIB_ISSUE_ID	BOOK_NO	MEMBER_ID	ISSUE_DATE	RETURN_DATE
7001	101	1	10-jan-11	
7002	102	2	25-jan-11	
7003	104	1	1-Feb-11	
7004	104	2	15-Mar-11	
7005	101	4	04-Apr-11	
7006	108	5	12-apr-11	
7007	101	8	1-Aug-11	

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- 1) Write a PL/SQL program where take input of two numbers and display the largest number.
- 2) Write a PL/SQL program where take input of any number and display whether it is even or odd.
- 3) Write a PL/SQL program where take input of any number and find factorial of the given number.
- 4) Write a PL/SQL program where check a year leap year or not. Take a year as user input and check it is leap year or not.
- 5) Write a PL/SQL program where take a string as input and print the reverse of it.
- 6) Create a table named CIRCLE with two attributes RADIUS number (3) and AREA number (10,3), then write a PL/SQL program which can calculate area for every radius up to 10 and insert into the table. (Use while and for loop individually).
- 7) Write a PL/SQL program which can update cost value of corresponding book number of the BOOKS_COPY Table.
 - ✓ INPUT: BOOK_NO, NEW COST,
 - ✓ CONDITION: Old cost value will less than 450 and new cost value will less

Than 900 otherwise provide an error massage.

- 8) Write a PL/SQL Program which take MEMBER_ID as input and provide the corresponding MEMBER_NAME, MEMBER_ADDRESS AND FEES PAID.
- 9) Write a PL/SQL program which can take a String as an input and display it without any space and also count the no of space available in the input string.
- 10) Take an input of any string and display each word in a separate line.
- 11) Take an input of any Member Number and display the Member Name in upper case and lower case.