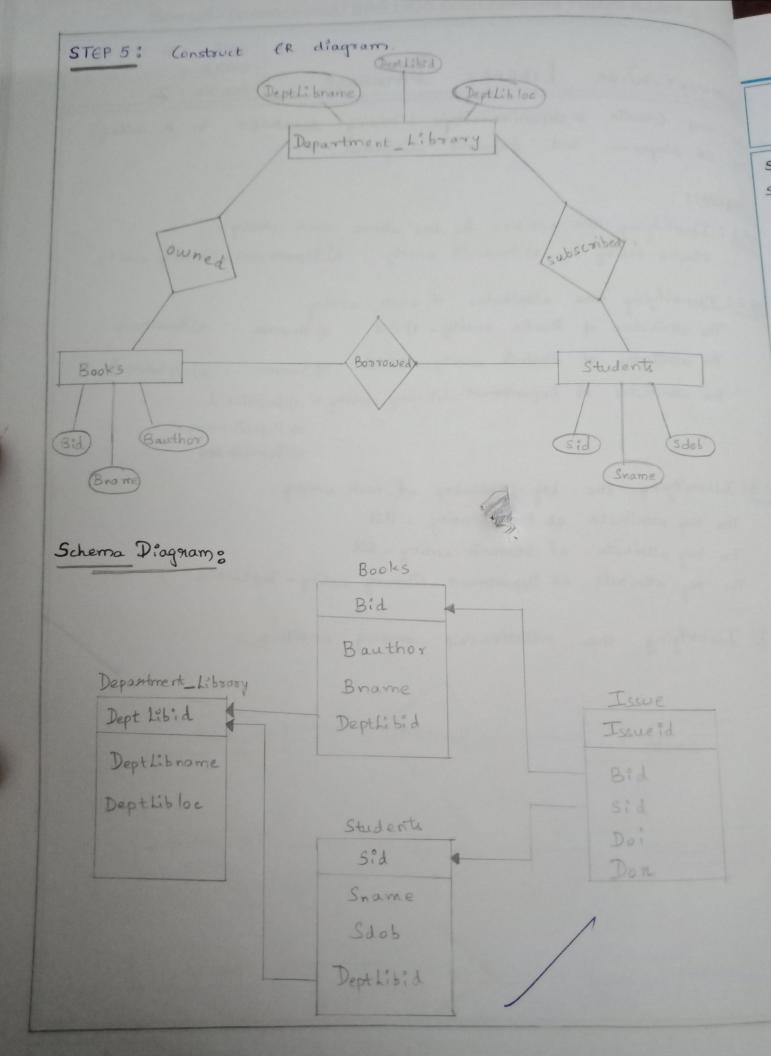
DATE : 31-07-19 CYCLE : DEPARTMENT-WISE LIBRARY DATABASE Exp. No. : 2 Design and Create a department wise Library database in a college using ER diagram and Schema diagram. ER-DIAGRAM: STEP 1: Identifying the entities for the above case study -1) Books entity 2) Students entity 3) Depostment-Library entity STEP 2: Identifying the attaibutes of each entity. 3) Bauthor The attributes of Books entity - 1) Bid 2) Brame The attendantes of Students entity-1) Sid 2) Sname 3) Sboranch The attributes of Department-Library entity - 1) Depthibid 2) Depthibname 3) Depthib loc STEP 3: Identifying the key attendentes of each entity The key attribute of Book entity - Bid The key attribute of Students entity - Sid The key attendent of Department - Library entity - Depthibid nelationship among entities STEP 4: Identifying the Students Books Students Department_Library



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STEP 1: (reate a Department-Library Table

Syl > create table deptlibd7 (deptlibid varchar(3), deptlibrame varchar(10), deptlibloc varchar(20), primary key (deptlibid);

A deptlible? table is weated with the fields deptlible, deptlibrame and deptlible.

Sala desc deptlibd7;

Name

Null?

Type

DEPTLIBID

NOT NULL

VARCHAR 2(3)

DEPTLIBNAME

VARCHAR 2 (10)

DEPTLIBLOC

VARCHAR 2 (20)

STEP 2: Insert the accords into Department_Library Table

Sql > insert into deptlibd7 values ('&deptlibid', '&deptlibname', '&deptlibloc');

Enter deptlibid: 05

Enter deptlibname: ese

Enter depthib Loc: silver jublee block

One second insented.

Sql >1

Enter deptlibil :01

Enter deptlibname: civil

Enter deptible: ce block a

One second insented.

STEP 3: Display the data in Department-Library Table.

Sql > select * forom deptlibd7;

DEPTLIBID

DEPTLIBNAME

DEPTLIBLOC

05

cse

silverjuble e block

01

civil

ce block 2

STEP 4; Create a Books Table STEP 4; (seate a Book of (bookid vasichass (10), bookname vasichass (3), psimas, (3) bookauthor vanchar(25), deptlibid vanchar(3), primary ky foreign key (deptlibid) references deptlibedT); A bookd? table is created with the fields bookid, bookname, bookauthor, deptlisid Sel = desc book d7: Name Null 2 Type VARCHAR 2(10) NOT NULL BookID VARCHAR 2 (30) BOOKNAME VARCHAR 2 (25) BOOK AUTHOR VARCHAR 2 (3) DEPTHBID STEP 5: Insert the necords into Books Table Sql > insert into bookd7 values ("&bookid", &bookname, &bookauthon (& deptlibid). Enter bookid: 6100 Enter bookname: data structures Enter bookauthor; praveen Enter depthibid : 05 One second insented. Sql 7/ Enter bookid: 6104 Enter book name: engineering drawing Enter book authors: makesh Enten deptlibid:01 One second inserted.

STEP 6: Display the geronds from Books Table Sql > select * from bookd7;

BOOK ID BOOK NAME BOOK AUTHOR
bloo data structures Peraveen
engineering drawing makesh

DEPTHBIT

01

CYCLE :
Exp. No. :

STEP 7: Coreate a Students Table

Sal > caeate table studentd7 (sid vanchan (20), sname vanchan (25), sdob date, deptlibid vanchan (3), polimany key (sid), foneign key (deptlibid) meterences deptlibd7).

A studented table is cueated with the fields sid, sname, sdob, deptlibid

Name
Null?
Type

SID
NOT NULL
VARCHAR 2(20)

SNAME

SDOB
DEPTLIBID

VARCHAR 2(3)

STEP 8: Insert the neconds thato students table

Sql > insert into student d7 values ('lsid', 'ksname', 'ksdob', 'kdeplibid').

Enter sid: 5100

Enter Sname: samhita

Enter sdob : 01-jan-2000

Enter deptlibid: 05

One second inserted.

Sq17/

30)

Enter sid: S103

Enter sname; mahathi

enter sdob: 04-jan-2000

Enter deptlibid: 01

One necond insented.

STEP 9: Display the seconds from students Table.

Sel select * forom studental;

 SID
 SNAME
 SDOB
 DEPTLIBID

 5100
 Samhita
 01-JAN-2000
 05

 5103
 mahathi
 04-JAN-2000
 01

STEP 10: Create issue table

Sql > create table issued (issue id vanchan (10), doi date, don date vanchar (10), sid vanchar (20), primary key (issue id), foreign key (vanchar (10), sid vanchar (20), primary key (issue id), foreign key (sid) references studentar references bookd7, foreign key (sid) references studentd7).

An issued Ttable is eneated with fields issueid, doi, dog, bookid Sylvadesc issuedt; Name Nulla

ISSUE ID	NOT NOLL	VARCHARLO
DOI		DATE
DOR		DATE
BookID		VARCHAR 2[10]
SID		VARCHAR 2 (20)

STEP 11: Insent the neconds into issue table

Sal> insert into issued values ('d'issueid', '&doi', Ldog', Lbookid')

Enter issueid : 1100

Enter doi: 21-jan-19

Enter dues: 24-jan-19

Enter bookid: 6100

Enter sid : <100

One second insented.

Sal7/

Enter issue id : 1104

Enter doi: 14-jan-19

Enter don: 20-jan-19

Enter bookid: 5104

Enter sid: \$102

One necond insented.

STEP 12: Display the neconds from the issue table Sal > select * from "ssued":

ISSUEID	DOI	DOR	Bookid	SID
1100	21-JAN-19	24-JAN-19	6100	5100
\$ 104 Sql > commit;	14-JAN-19	20-JAN-19	b 104	5103