University of Engineering and Management

Database Management System Laboratory

MCAC 291

ASSIGNMENT 2

- 1. Consider the following schema for a Library Database:
- a. BOOK (Book_id, Title, Publisher_Name, Pub_Year)

Name	•	Nu1	1?	Туре
BOOK ID		NUT	NIII I	NUMBER(38)
TITLE			HOLL	VARCHAR2(20)
PUB_YEAR				VARCHAR2(20)
PUBLISHER_NAM	1E			UARCHAR2(20)

- 1. Make BOOK_ID as Primary Key
- 2. Make PUBLISHER_NAME as foreign key of NAME field PUBLISHER TABLE
- b. BOOK_AUTHORS (Book_id, Author_Name)

Name	Null?	Туре
AUTHOR_NAME	NOT NULL	VARCHAR2(20)
BOOK ID	NOT NULL	NUMBER(38)

- 1. Make Author_NAME and BOOK_ID as Composite Key
- 2. Make Book_ID Foreign Key of BOOK_ID field of BOOK table
- c. PUBLISHER (Name, Address, Phone)

Name	Nu1	l?	Туре
NAME	NOT.	NULL	VARCHAR2(20)
PHONE			NUMBER(38)
ADDRESS			VARCHAR2(20)

- 1. Make Name as Primary Key
- d. BOOK_COPIES (Book_id, Branch_id, No-of_Copies)

Name	_	Nu1	1?	Туре
HO_OF_C	OPIES			NUMBER(38)
BOOK ID		H0T	NULL	NUMBER(38)
BRANCH	ID	HOT.	NULL	NUMBER(38)

- 1. Make BOOK_ID, BRANCH_ID as composite Key
- 3. Make Book_ID Foreign Key of BOOK_ID field of BOOK table
- 4. Make BRANCH _ID Foreign Key of BRANCH _ID field of LIBRARY_BRANCH table
- e. BOOK_LENDING (Book_id, Branch_id, Card_No, Date_Out, Due_Date)

me	
TE_OUT	
TE_OUT E_DATE OK_ID	
OK ID	
ANCH_ID	
RD NÕ	

- 1. The data type for DATE_OUT and DUE_DATE DATE will be date
- 2. Make Book_ID Foreign Key of BOOK_ID field of BOOK table
- 3. Make BRANCH _ID Foreign Key of BRANCH _ID field of LIBRARY BRANCH table
- 4. Make CARD_NO Foreign Key of CARD_NO field of CARD table
- 5. Make BOOK_ID, BRANCH_ID, CARD_NO as composite key
- f. LIBRARY_BRANCH (Branch_id, Branch_Name, Address)

Name	Nu11?	Туре	
BRANCH_ID	HOT HULL	NUMBER(38)	
BRANCH_NAME		VARCHAR2(50)	
ADDRESS		VARCHAR2(50)	

- 1. Make BRANCH_ID as Primary Key.
- g. Card (CARD_ID)

Nane	Nu11?	Туре
CARD NO	NOT NULL	NUMBER(38)

1. Make CARD_NO as Primary Key

Data for the PUBLISHER tables

- 1. 'MCGRAW-HILL', 9989076587, 'BANGALORE'
- 2. 'PEARSON', 9889076565, 'NEWDELHI'
- 3. 'RANDOM HOUSE', 7455679345, 'HYDRABAD'
- 4. HACHETTE LIVRE', 8970862340, 'CHENAI
- 5. GRUPOPLANETA',7756120238,'BANGALORE'

Data for the BOOK tables

- 1. 1, 'DBMS', 'JAN-2017', 'MCGRAW-HILL'
- 2. 2, 'ADBMS', 'JUN-2016', 'MCGRAW-HILL'
- 3. 3,'CN','SEP-2016', 'PEARSON'
- 4. 4,'CG','SEP-2015', 'GRUPO PLANETA'
- 5. 5, 'OS', 'MAY-2016', 'PEARSON'

Data for the BOOK_AUTHORS tables

- 1. 'NAVATHE', 1
- 2. 'NAVATHE', 2
- 3. 'TANENBAUM', 3
- 4. 'EDWARD ANGEL', 4
- 5. 'GALVIN', 5

Data for LIBRARY BRANCH tables

- 1. 10, 'RR NAGAR', 'BANGALORE'
- 2. 11, 'RNSIT', 'BANGALORE'
- 3. 12, 'RAJAJI NAGAR', 'BANGALORE'
- 4. 13, 'NITTE', 'MANGALORE
- 5. 14, 'MANIPAL', 'UDUPI'

Data for BOOK_COPIES tables

- 1. 10, 1, 1
- 2. 5, 1,11
- 3. 2, 2,12

- 4. 5, 2,13
- 5. 7, 3,14
- 6. 1, 5,10
- 7. 3, 4,11

Data for BOOK_COPIES tables

- 1. 100
- 2. 101
- 3. 102
- 4. 103
- 5. 104

Data for BOOK LENDING tables

- 1. '01-JAN-17', '01-JUN-17', 1, 10, 101
- 2. '11-JAN-17', '11-MAR-17', 3, 14, 101
- 3. '21-FEB-17', '21-APR-17', 2, 13, 101
- 4. '15-MAR-17', '15-JUL-17', 4, 11, 101
- 5. 12-APR-17', '12-MAY-17', 1, 11, 104
- 1. Write a query to display the book id, card number from book_Lending table Where due date is 15-MAR-17.
- 2. Rename table name card to card details.
- 3. Alter Column name satus to Book Lending Table.
- 4. Display all the books where number of copies id 5
- 5. Rename Column address of Branch address in with varchar(50)
- 6. Write a query to display the Book id, number of copies who have not returned the books
- 7. Display all the addres of the branch Bengalore.
- 8. Write a query to display the publisher name of DBMS book.
- 9. Write a query to display the author name of DBMS book.
- 10. Write a query to display the book code, book title and author for all DBMS book.