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FYCS

ASSIGNMENT 3

Q1. Create the following given table with appropriate data type and constraints

Table Name: BOOK_ROLLNO

Column Name	Data Type	Size	Attribute
BOOKID	Varchar	10	Primary key
TITLE	Varchar	50	Not null
PUBLISHER	Varchar	30	Not null
CATEGORY	Varchar	30	Not null
YEAR	Varchar	15	Not null
PRICE	Number	8	Should be greater than 0

```
SQL> create table BOOK_50(BOOKID VARCHAR(10) PRIMARY KEY,TITLE VARCHAR(50) NOT NULL,PUBLISHER VARCHAR(30)NOT NULL,CATEGORY VARCHAR(30) NOT NULL, YEAR VARCHAR(15) NOT NULL,PRICE NUMBER(8) CHECK(PRICE > 0));
```

Table created.

```
SQL> DESC BOOK_50
```

Name	Null?	Type
BOOKID	NOT NULL	VARCHAR2(10)
TITLE	NOT NULL	VARCHAR2(50)
PUBLISHER	NOT NULL	VARCHAR2(30)
CATEGORY	NOT NULL	VARCHAR2(30)
YEAR	NOT NULL	VARCHAR2(15)
PRICE		NUMBER(8)

Table Name: DISTRIBUTOR_ROLLNO

Column Name	Data Type	Size	Attribute
DISTID	Varchar	6	Primary Key
DISTRIBUTOR	Varchar	20	Not null
CITY	Varchar	30	Default Mumbai
DISCOUNT(in Rupees)	Varchar	30	Default value 15
CREDIT	Varchar	15	Should be greater than 0

```
SQL> CREATE TABLE DISTRIBUTOR_50(DISTID VARCHAR(6) PRIMARY KEY,DISTRIBUTOR VARCHAR(20) NOT NULL,CITY VARCHAR(30) DEFAULT 'Mumbai',DISCOUNT VARCHAR(30)DEFAULT 15,CREDIT VARCHAR(15) CHECK(CREDIT>0));
```

Table created.

```
SQL> DESC DISTRIBUTED_50
```

ERROR:

ORA-04043: object DISTRIBUTED_50 does not exist

```
SQL> DESC DISTRIBUTOR_50
```

Name	Null?	Type
DISTID	NOT NULL	VARCHAR2(6)
DISTRIBUTOR	NOT NULL	VARCHAR2(20)
CITY		VARCHAR2(30)
DISCOUNT		VARCHAR2(30)
CREDIT		VARCHAR2(15)

Table Name: ORDERS_ROLLNO

Column Name	Data Type	Size	Attribute
ORDNO	Varchar	20	Primary key
TITLE	Varchar	30	Not null
DISTID	Varchar	30	Foreign Key
QTY	Varchar	15	Should be greater than 0
BOOKID	Varchar	10	Foreign Key

```
SQL> CREATE TABLE ORDERS_50(ORDNO VARCHAR(20) PRIMARY KEY,TITLE VARCHAR(30) NOT NULL,DISTID VARCHAR(30) REFERENCES DISTRIBUTOR_50(DISTID),QTY VARCHAR(15) CHECK(QTY>0),BOOKID VARCHAR(10) REFERENCES BOOK_50(BOOKID));
```

Table created.

```
SQL> DESC ORDERS_50
```

Name	Null?	Type
ORDNO	NOT NULL	VARCHAR2(20)
TITLE	NOT NULL	VARCHAR2(30)
DISTID		VARCHAR2(30)
QTY		VARCHAR2(15)
BOOKID		VARCHAR2(10)

Q2. Answer the following queries

1. Rename the table Orders as Order_Details.

```
SQL> ALTER TABLE ORDERS_50
2 RENAME TO ORDER_DETAILS;
```

2. Add a column Author in Book table with appropriate data type.

```
SQL> ALTER TABLE BOOK_50  
  2  ADD AUTHOR VARCHAR(20) NOT NULL;  
  
Table altered.
```

3. Delete the column Credit from Distributor table.

```
SQL> ALTER TABLE DISTRIBUTOR_50  
  2  DROP COLUMN CREDIT;  
  
Table altered.
```

4. Update the data type of column city to varchar(15) in the Distributor table.

```
SQL> ALTER TABLE DISTRIBUTOR_50  
  2  MODIFY CITY VARCHAR(15);  
  
Table altered.
```

5. Add a column date in Orders table.

```
SQL> ALTER TABLE ORDER_DETAILS  
  2  ADD DATES DATE NOT NULL;  
  
Table altered.
```