

ASSIGNMENT NO. 3

Q1. Create the following given table with appropriate datatype 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

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```
SQL> CREATE TABLE BOOK_ANIKET44(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_ANIKET44;
```

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_ANIKET44(DISTID VARCHAR(6) PRIMARY KEY,DISTRIBUTOR VARCHAR(20) NOT NUL
L,CITY VARCHAR(30) DEFAULT('MUMBAI'),DISCOUNT VARCHAR(30) DEFAULT(15),CREDIT VARCHAR(15) CHECK (CRED
IT>0));
```

Table created.

```
SQL> DESC DISTRIBUTOR_ANIKET44;
```

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_ANIKET44(ORDNO VARCHAR(20)PRIMARY KEY,TITLE VARCHAR(30) NOT NULL,DISTID VARCHAR(30)REFERENCES DISTRIBUTOR_ANIKET44(DISTID),QTY VARCHAR(15) CHECK (QTY>0),BOOKID VARCHAR(10) REFERENCES BOOK_ANIKET44(BOOKID));
```

Table created.

```
SQL> DESC ORDERS_ANIKET44;
```

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

## O2. Answer the following queries

1. Rename the table Orders as Order\_Details.

```
SQL> ALTER TABLE ORDERS_ANIKET44  
2 RENAME TO ORDER_DETAILS;
```

Table altered.

```
SQL> DESC ORDER_DETAILS;
```

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

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

```
SQL> ALTER TABLE BOOK_ANIKET44  
2 ADD AUTHOR VARCHAR(25);
```

Table altered.

```
SQL> DESC BOOK_ANIKET44;
```

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)
AUTHOR		VARCHAR2(25)

### 3. Delete the column Credit from Distributor table.

```
SQL> ALTER TABLE DISTRIBUTOR_ANIKET44  
2 DROP COLUMN CREDIT;
```

Table altered.

```
SQL> DESC DISTRIBUTOR_ANIKET44;
```

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

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

```
SQL> ALTER TABLE DISTRIBUTOR_ANIKET44  
2 MODIFY CITY VARCHAR(15);
```

Table altered.

```
SQL> DESC DISTRIBUTOR_ANIKET44;
```

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

### 5. Add a column date in Orders table.

```
SQL> ALTER TABLE ORDER_DETAILS  
2 ADD DATEOR DATE;
```

Table altered.

```
SQL> DESC ORDER_DETAILS;
```

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

```
SQL> |
```