

ASSIGNMENT : 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

The screenshot shows the Oracle Live SQL - SQL Worksheet interface. The SQL code entered is:

```

1 CREATE TABLE BOOK_77(BOOKID VARCHAR(10) PRIMARY KEY,TITLE VARCHAR(50) NOT NULL,
2 PUBLISHER VARCHAR(30) NOT NULL,CATEGORY VARCHAR(30) NOT NULL,YEAR VARCHAR(15)
3 NOT NULL,PRICE NUMBER(8) CHECK(PRICE>0));
4 DESC BOOK_77;

```

The output shows "Table created." and a table structure for TABLE BOOK_77:

Column	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(8,0)

Download CSV
6 rows selected.

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

The screenshot shows the Oracle Live SQL interface with the following SQL code:

```

2 PUBLISHER VARCHAR(30) NOT NULL, CATEGORY VARCHAR(30) NOT NULL, YEAR VARCHAR(15)
3 NOT NULL, PRICE NUMBER(8) CHECK(PRICE>0));
4 DESC BOOK_77;
5 CREATE TABLE DISTRIBUTOR_77 (DISTID VARCHAR(6) PRIMARY KEY, DISTRIBUTOR VARCHAR(20)
6 NOT NULL, CITY VARCHAR(30) DEFAULT 'MUMBAI', DISCOUNT VARCHAR(30) DEFAULT 15,
7 CREDIT VARCHAR(15) CHECK(CREDIT>0));
8 DESC DISTRIBUTOR_77;

```

Table created.

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

Download CSV
5 rows selected.

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

The screenshot shows the Oracle Live SQL interface with the following SQL code:

```

6 NOT NULL, CITY VARCHAR(30) DEFAULT 'MUMBAI', DISCOUNT VARCHAR(30) DEFAULT 15,
7 CREDIT VARCHAR(15) CHECK(CREDIT>0));
8 DESC DISTRIBUTOR_77;
9 CREATE TABLE ORDERS_77 (ORDERNO VARCHAR(20) PRIMARY KEY, TITLE VARCHAR(30) NOT NULL,
10 DISTID VARCHAR(30) REFERENCES DISTRIBUTOR_77(DISTID), QTY VARCHAR(15) CHECK(QTY>0),
11 BOOKID VARCHAR(10) REFERENCES BOOK_77(BOOKID));
12 DESC ORDERS_77;

```

Table created.

Column	Null?	Type
ORDERNO	NOT NULL	VARCHAR2(20)
TITLE	NOT NULL	VARCHAR2(30)
DISTID	-	VARCHAR2(30)
QTY	-	VARCHAR2(15)
BOOKID	-	VARCHAR2(10)

Download CSV
5 rows selected.

O2. Answer the following queries

1. Rename the table Orders as Order_Details.

```
13 ALTER TABLE ORDERS_77 RENAME TO ORDER_DETAILS;

Table altered.
```

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

```
14 ALTER TABLE BOOK_77 ADD AUTHOR VARCHAR(30) NOT NULL;

Table altered.
```

3. Delete the column Credit from Distributor table.

```
15
16 ALTER TABLE DISTRIBUTOR_77 DROP COLUMN CREDIT;

Table altered.
```

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

```
17
18 ALTER TABLE DISTRIBUTOR_77 MODIFY CITY VARCHAR(15);

Table altered.
```

5. Add a column date in Orders table.

```
19
20 ALTER TABLE ORDER_DETAILS ADD DATES DATE NOT NULL;

Table altered.
```