

MOKSHI AYA

FYCS - 04

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

```
Run SQL Command Line
SQL> CREATE TABLE BOOK_MOKSHI04(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_MOKSHI04;
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

```
Run SQL Command Line
SQL> CREATE TABLE DISTRIBUTOR_MOKSHI04(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 DISTRIBUTOR_MOKSHI04;
Name                               Null?    Type
-----
DISTID                             NOT NULL VARCHAR2(6)
DISTRIBUTOR                        NOT NULL VARCHAR2(20)
CITY                               VARCHAR2(30)
DISCOUNT                         VARCHAR2(30)
CREDIT                            VARCHAR2(15)

SQL>
```

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

```
Run SQL Command Line
SQL> CREATE TABLE ORDERS_MOKSHI04(ORDNO VARCHAR(20)PRIMARY KEY,TITLE VARCHAR(30) NOT NULL,DISTID VARCHAR(30)REFERENCES
DISTRIBUTOR_MOKSHI04(DISTID),QTY VARCHAR(15) CHECK (QTY>0),BOOKID VARCHAR(10) REFERENCES BOOK_MOKSHI04(BOOKID));
Table created.
SQL> DESC ORDERS_MOKSHI04;
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.

```
Run SQL Command Line
SQL> ALTER TABLE ORDERS_MOKSHI04
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.

```
Run SQL Command Line
SQL> ALTER TABLE BOOK_MOKSHI04
2  ADD AUTHOR VARCHAR(25);
Table altered.
SQL> DESC BOOK_MOKSHI04;
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.

```
Run SQL Command Line
SQL> ALTER TABLE DISTRIBUTOR_MOKSHI04
2 DROP COLUMN CREDIT;

Table altered.

SQL> DESC DISTRIBUTOR_MOKSHI04;
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.

```
Run SQL Command Line
SQL> ALTER TABLE DISTRIBUTOR_MOKSHI04
2 MODIFY CITY VARCHAR(15);

Table altered.

SQL> DESC DISTRIBUTOR_MOKSHI04;
Name                                         Null?    Type
-----
DISTID                                     NOT NULL VARCHAR2(6)
DISTRIBUTOR                               NOT NULL VARCHAR2(20)
CITY                                       VARCHAR2(15)
DISCOUNT                                VARCHAR2(30)

SQL> █
```

5. Add a column date in Orders table.

```
Run SQL Command Line
SQL> ALTER TABLE ORDER_DETAILS
2 ADD DATEOF DATE;

Table altered.

Run SQL Command Line
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)
DATEOF                                  DATE
```