

ASSIGNMENT 3

Q1. Create the following given table with appropriate datatype and constraints.

Table Name: BOOK_ROLLNO

Table Name: DISTRIBUTOR_ROLLNO

Table Name: ORDERS_ROLLNO

```
Run SQL Command Line
SQL> create table BOOK_109(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> create table DISTRIBUTOR_109(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> create table ORDERS_109(ORDNO varchar(20) primary key,TITLE varchar(30) not null, DISTID varchar(30) references DISTRIBUTOR_109 (DISTID), QTY varchar(15) check(QTY>0), BOOKID varchar(10) references BOOK_109(BOOKID));
Table created.
SQL> desc BOOK_109;
+-----+
| 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) |
+-----+
SQL> desc DISTRIBUTOR_109;
+-----+
| Name | Null? | Type |
+-----+
| DISTID | NOT NULL | VARCHAR2(6) |
| DISTRIBUTOR | NOT NULL | VARCHAR2(20) |
| CITY | | VARCHAR2(30) |
| DISCOUNT | | VARCHAR2(30) |
| CREDIT | | VARCHAR2(15) |
+-----+
SQL> desc ORDERS_109;
+-----+
| 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_109
2 rename to ORDER_DETAILS_109;
Table altered.
```

```
SQL> desc ORDER_DETAILS_109;
Name                               Null?      Type
-----
ORDNO                              NOT NULL   VARCHAR2(20)
TITLE                              NOT NULL   VARCHAR2(30)
DISTID                             VARCHAR2(30)
QTY                                VARCHAR2(15)
BOOKID                             VARCHAR2(10)

SQL>
```

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

 Run SQL Command Line

```
SQL> alter table BOOK_109
2 add AUTHOR varchar(30) not null;
```

Table altered.

```
SQL> desc BOOK_109;
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                              NOT NULL   NUMBER(8)
AUTHOR                             NOT NULL   VARCHAR2(30)

SQL>
```

3. Delete the column Credit from Distributor table.

 Run SQL Command Line

```
SQL> alter table DISTRIBUTOR_109  
2 drop column CREDIT;
```

Table altered.

```
SQL> desc DISTRIBUTOR_109;
```

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

```
SQL>
```

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

 Run SQL Command Line

```
SQL> alter table DISTRIBUTOR_109  
2 modify CITY varchar(15);
```

Table altered.

```
SQL> desc DISTRIBUTOR_109;
```

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_109  
2 add DATE_OF_ORDER date;
```

Table altered.

```
SQL> desc ORDER_DETAILS_109;
```

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

```
SQL>
```