---Create DATABASE---

CREATE TABLE Genre (

GenreID INT Primary Key Not Null,

DescriptionGenre Varchar(50) Not Null,

);

CREATE TABLE Book (

BookID INT Primary Key Not Null,

Title Varchar (50) Not Null,

GenreID INT Not Null,

AuthorID INT Not Null,

);

CREATE TABLE Author (

AuthorID INT Primary Key Not Null,

Name Varchar (50) Not Null,

Surname Varchar (50) Not Null,

);

CREATE TABLE Entry (

EntryID INT Primary Key Not Null,

BookID INT Not Null,

CompetitionID INT Not null,

);

CREATE TABLE Competition (

CompetitionID INT Primary Key Not Null,

Description Varchar(50) Not Null,

);

---INSERT RECORDS AUTHOR---

INSERT INTO Author

Values (301,'Jonh','Doe');

INSERT INTO Author

Values(302,'Jane','Samoa');

INSERT INTO Author

Values(303,'jane','Smith');

INSERT INTO Author

Values(304,'Michael','Johnson');

INSERT INTO Author

Values(305,'David','Brown');

---INSERT RECORDS Book---

INSERT INTO Book

Values(201,'Disgrace',101,301);

INSERT INTO Book

Values(202,'Cry the Beloved Country',102,302);

INSERT INTO Book

Values(203,'Julys People',103,303);

INSERT INTO Book

Values(204,'Country of My Skull',104,304);

INSERT INTO Book

Values(205,'A Dry White Season',105,305);

INSERT INTO Book

Values(206,'A Dry White Season',106,306);

INSERT INTO Book

Values(207,'The Conservationist',107,306);

INSERT INTO Book

Values(208,'My Traitors Heart',108,308);

INSERT INTO Book

Values(209,'The heart of redness',109,309);

INSERT INTO Book

Values(210,'Zoo City',110,310);

INSERT INTO Book

Values(211,'Spud',111,311);

INSERT INTO Book

Values(212,'Indaba my children',112,312);

INSERT INTO Book

Values(213,'Beautiful Place to Die',113,313);

INSERT INTO Book

Values(214,'Things Fall Apart',114,314);

INSERT INTO Book

Values(215,'Nervous Conditions',115,315);

INSERT INTO Book

Values(216,'A Question of Power',116,316);

INSERT INTO Book

Values(217,'Native Life in South Africa',117,317);

INSERT INTO Book

Values(218,'The heart of redness',118,318);

INSERT INTO Book

Values(219,'The Famished Road',119,319);

INSERT INTO Book

Values(220,'Maps',120,320);

---INSERT RECORDS COMPETITION---

INSERT INTO Competition

Values(501,'Lovely')

INSERT INTO Competition

Values(502,'Sorrow')

INSERT INTO Competition

Values(503,'Violens')

INSERT INTO Competition

Values(504,'Remenisiy')

INSERT INTO Competition

Values(505,'Memorial')

INSERT INTO Competition

Values(506,'Memorial')

INSERT INTO Competition

Values(507,'Memorial')

INSERT INTO Competition

Values(508,'Autobiographical')

INSERT INTO Competition

Values(509,'Cultural');

INSERT INTO Competition

Values(510,'Magical');

INSERT INTO Competition

Values(511,'A Humorous');

INSERT INTO Competition

Values(512,'Ancient');

INSERT INTO Competition

Values(513,'Crime');

INSERT INTO Competition

Values(514, 'Futuristics');

INSERT INTO Competition

Values(515,'Semi-Autobiographical');

----Create Table Entry-----

INSERT INTO Entry

Values( 401,201,501);

INSERT INTO Entry

Values(403,203,501);

INSERT INTO Entry

Values(404,204,504);

INSERT INTO Entry

Values(405,205,505);

INSERT INTO Entry

Values(406,206,506);

INSERT INTO Entry

Values(407,207,507);

INSERT INTO Entry

Values(408,208,508);

INSERT INTO Entry

Values(409,209,509);

INSERT INTO Entry

Values(410,210,510);

INSERT INTO Entry

Values(411,211,511);

INSERT INTO Entry

Values(412,212,512);

INSERT INTO Entry

Values(413,213,513);

INSERT INTO Entry

Values(414,214,514);

INSERT INTO Entry

Values(415,215,515);

INSERT INTO Entry

Values(416,216,516);

INSERT INTO Entry

Values(417,217,517);

INSERT INTO Entry

Values(418,218,518);

INSERT INTO Entry

Values(419,219,519);

INSERT INTO Entry

Values(420,220,520);

---Create Table Genre----

INSERT INTO Genre

Values(101,'Fantasy');

INSERT INTO Genre

Values(102,'Science Fiction');

INSERT INTO Genre

Values(103,'Dystopian');

INSERT INTO Genre

Values(104,'Adventure');

INSERT INTO Genre

Values(105,'Romentic');

INSERT INTO Genre

Values(106,'Romentic');

INSERT INTO Genre

Values(107,'Horror')

INSERT INTO Genre

Values(108,'Thriller');

INSERT INTO Genre

Values(109,'Biography');

INSERT INTO Genre

Values(110,'Historical');

INSERT INTO Genre

Values(111,'Comedy');

INSERT INTO Genre

Values(112,'Sport');

INSERT INTO Genre

Values(113,'Musical');

INSERT INTO Genre

Values(114,'Crime');

INSERT INTO Genre

Values(115,'Drama');

INSERT INTO Genre

Values(116,'War');

INSERT INTO Genre

Values(117,'Religion')

INSERT INTO Genre

Values(118,'Adult')

INSERT INTO Genre

Values(119,'Mystery')

INSERT INTO Genre

Values(120,'Mythology')

-----Update Table Book----

-----Update Table Book----

Select \* from Book

update Book

set AuthorID=3000

where BookID=205

Select \* from Book

update Book

set AuthorID=2000

where BookID=206

Select \* from Book

update Book

set AuthorID=1000

where BookID=207

Select \* from Book

update Book

set AuthorID=4000

where BookID=208

Select \* from Book

update Book

set AuthorID=5000

where BookID=209

-----Delete from table Book---

Select \* from Book

Delete from dbo.Book

Where Title='Julys People'

Select \* from Book

Delete from dbo.Book

Where Title='Disgrace'

Select \* from Book

Delete from dbo.Book

Where Title='Cry the Beloved Country'

Select \* from Book

Delete from dbo.Book

Where Title='Zoo City'

Select \* from Book

Delete from dbo.Book

Where Title='Spud'

----Tables that are Joined -------

select Book.BookID, Book.Title, Book.GenreID, Book.AuthorID,

Genre.GenreID, Genre.Descriptiongenre

From Genre join Book on Book.BookID = Book.AuthorID

---Alphabetical Ascending Oredr-----

Select \* from Book,Genre,Author

Select \* from Book

order by Book.Title ASC

Select \* from Book

order by Book.BookID ASC

Select \* from Book

order by Book.GenreID ASC

Select \* from Book

order by Book.GenreID ASC

Select \* from Genre

order by Genre.GenreID ASC

Select \* from Genre

order by Genre.DescriptionGenre ASC

Select \* from Author

order by Author.AuthorID ASC

Select \* from Author

order by Author.Name ASC

Select \* from Author

order by Author.Surname ASC

----Alphabetical Oder --------

Select Entry.EntryID. Entry.CompetitionID. Entry.BookID. Book.BookID.

CAST( Genre.DescriptionGenre AS NVARCHAR(MAX)) AS DescriptionGenre.

Book.Title, Book.BookID, Book.GenreID, Book.AuthorID From Book

inner Join Book on Entry.BookID = Book.BookID

inner join Author on Book.AuthorID= Author.AuthorID

----Group By Book And Genre----

Select Genre.GenreID, count (Book.BookID) AS BookNumber

from Genre

left join Book on Book.GenreID = Genre.GenreID

Group By Genre.GenreID

Order by Genre.GenreID

Select Book.BookID , Book.Title Book.GenreID , Book.AuthorID

From Entry

Join ( Select EntryID, Count (Entry.BookID) as Book

From Book

Group By BookID

Having count (EntryID) > 20

Entry On Entry.BookID= Book.BookID

---Joining the Table Book and Genre-----

select Book.BookID, Book.AuthorID, Book.Title,Book.GenreID from Book full

join Author on Author.AuthorID= Book.BookID