Lab-5

Write all create table statements and all insert values statements here.

create table Publisher (

 PublisherName varchar2(50) NOT NULL,

 City varchar2(50) NOT NULL,

 Country varchar2(50) NOT NULL,

 TelephoneNumber int NOT NULL,

 YearOfFoundation int NOT NULL,

 PRIMARY KEY (PublisherName)

);

create table Author (

 AuthorNumber int NOT NULL,

 AuthorName varchar2(50) NOT NULL,

 DateOfBirth int NOT NULL,

 PRIMARY KEY (AuthorNumber)

);

create table Book (

 BookNumber int NOT NULL,

 BookName varchar2(50) NOT NULL,

 PublishedYear int NOT NULL,

 Page int NOT NULL,

 Costs int NOT NULL,

 PublisherName varchar2(50) NOT NULL,

 PRIMARY KEY (BookNumber)

);

create table Customer (

 CustomerNumber int NOT NULL,

 CustomerName varchar2(50) NOT NULL,

 Street varchar2(50) NOT NULL,

 City varchar2(50) NOT NULL,

```sql
  State varchar2(50) NOT NULL,
  Country varchar2(50) NOT NULL,
  PRIMARY KEY (CustomerNumber)
);
create table Writing (
  BookNumber int NOT NULL,
  AuthorNumber int NOT NULL,
  PRIMARY KEY (BookNumber,AuthorNumber)
);
create table Sale (
  BookNumber int NOT NULL,
  CustomerNumber int,
  Dates varchar2(50) NOT NULL,
  Price int NOT NULL,
  Quantity int NOT NULL,
  PRIMARY KEY(BookNumber,CustomerNumber)
);
insert into Publisher values ('London Publishing Ltd','London','UK',1234567890,1962);
insert into Publisher values ('Paris Publishing Ltd','Paris','France',0123456789,1964);
insert into Publisher values ('Brasilia Publishing Ltd','Brasília','Brazil',0987654321,1968);
insert into Publisher values ('Auckland Publishing Ltd','Auckland','New Zealand',9876543210,1960);
insert into Author values (781,'Jack',1964);
insert into Author values (690,'Mary',1975);
insert into Author values (882,'Dutch',1906);
insert into Author values (103,'Hosea',1965);
insert into Book values (892,'Business ethics',2001,200,300,'London Publishing Ltd');
insert into Book values (1092,'Body Language',2012,420,450,'Paris Publishing Ltd');
insert into Book values (982,'Social Media',1950,230,400,'Brasilia Publishing Ltd');
insert into Book values (862,'Money Machine',2001,330,500,'Auckland Publishing Ltd');
insert into Customer values (562,'Arthur','Queens street','London','London','UK');
```

insert into Customer values (662,'John','Gold street','Armadillo','Mexico','USA');

insert into Customer values (182,'Pearson','Statue street','Rhodes','Helph','Switzerland');

insert into Customer values (342,'Ram','Gandhi street','Hyderabad','Telangana','India');

insert into Writing values (892,781);

insert into Writing values (1092,690);

insert into Writing values (982,882);

insert into Writing values (862,103);

insert into Sale values (892,562,2020,300,192);

insert into Sale values (1092,662,2020,450,10);

insert into Sale values (982,182,2020,400,0);

insert into Sale values (862,342,2020,500,64);

select * from Publisher;

select * from Author;

select * from Book;

select * from Customer;

select * from Writing;

select * from Sale;

Output:

PUBLISHERNAME	CITY	COUNTRY	TELEPHONENUMBER	YEAROFFOUNDATION
London Publishing Ltd	London	UK	1234567890	1962
Paris Publishing Ltd	Paris	France	123456789	1964
Brasilia Publishing Ltd	Brasília	Brazil	987654321	1968
Auckland Publishing Ltd	Auckland	New Zealand	9876543210	1960

Download CSV
4 rows selected.

AUTHORNUMBER	AUTHORNAME	DATEOFBIRTH
781	Jack	1964
690	Mary	1975
882	Dutch	1906
103	Hosea	1965

Download CSV
4 rows selected.

BOOKNUMBER	BOOKNAME	PUBLISHEDYEAR	PAGE	COSTS	PUBLISHERNAME
892	Business ethics	2001	200	300	London Publishing Ltd
1092	Body Language	2012	420	450	Paris Publishing Ltd
982	Social Media	1950	230	400	Brasilia Publishing Ltd
862	Money Machine	2001	330	500	Auckland Publishing Ltd

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4 rows selected.

CUSTOMERNUMBER	CUSTOMERNAME	STREET	CITY	STATE	COUNTRY
562	Arthur	Queens street	London	London	UK
662	John	Gold street	Armadillo	Mexico	USA
182	Pearson	Statue street	Rhodes	Helph	Switzerland
342	Ram	Gandhi street	Hyderabad	Telangana	India

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4 rows selected.

BOOKNUMBER	AUTHORNUMBER
862	103
892	781
982	882
1092	690

Download CSV
4 rows selected.

BOOKNUMBER	CUSTOMERNUMBER	DATES	PRICE	QUANTITY
892	562	2020	300	192
1092	662	2020	450	10
982	182	2020	400	0
862	342	2020	500	64

Download CSV
4 rows selected.

1. Find the book number, book name, and number of pages of all the books published by London Publishing Ltd. List the results in order by book name.

select BookNumber,BookName,Page

from Book

where PublisherName='London Publishing Ltd'

order by BookName;

Output:

BOOKNUMBER	BOOKNAME	PAGE
892	Business ethics	200

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2. How many books of at least 400 pages does Good Reading Bookstores carry that were published by publishers based in Paris, France?
select count(*)

from Publisher,Book

where Publisher.PublisherName=Book.PublisherName and City='Paris' and Country='France' AND Page>=400;

Output:

COUNT(*)
1

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3. List the publishers in Belgium, Brazil, and Singapore that publish books written by authors who were born before 1920.

select distinct Publisher.PublisherName

from Publisher,Book,Writing,Author

where Publisher.PublisherName=Book.PublisherName and Book.BookNumber=Writing.BookNumber and Writing.AuthorNumber=Author.AuthorNumber and Country in ('Belgium', 'Brazil', 'Singapore') and DateOfBirth<1920;

Output:

PUBLISHERNAME
Brasilia Publishing Ltd

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4. How many books did each publisher in India, Norway; Nairobi, Kenya; and Auckland, New Zealand, publish in 2001?
select count(*)

from Publisher,Book

where Publisher.PublisherName=Book.PublisherName and ((City='India' and Country='Norway') or (City='Nairobi' and Country='Kenya') or (City='Auckland' and Country='New Zealand')) and PublishedYear=2001

Output:

COUNT(*)
1

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5. Which publisher published the book that has the earliest publication year among all the books that Good Reading Bookstores carries?

select distinct PublisherName

from Book

where PublishedYear=(select min(PublishedYear) from Book);

<u>Output:</u>

PUBLISHERNAME
Brasilia Publishing Ltd

Download CSV

6. List the Customer Names who purchased books published from same city.

select CustomerName

from Publisher,Customer,Sale,Book

where Customer.CustomerNumber=Sale.CustomerNumber and
Sale.BookNumber=Book.BookNumber and Book.PublisherName=Publisher.PublisherName
and Publisher.City=Customer.City

Output:

CUSTOMERNAME
Arthur

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7. List the author names whose total book sale is highest in 2020.

select AuthorName

from Author,Writing,Sale

where Author.AuthorNumber=Writing.AuthorNumber and
Sale.BookNumber=Writing.BookNumber and Quantity=(select Max(Quantity) from Sale)
and Dates=2020

Output:
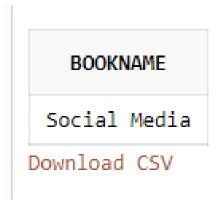
AUTHORNAME
Jack

Download CSV

8. Find the book names has zero sale in 2020.
select BookName

from Book,Sale

where Book.BookNumber=Sale.BookNumber and Quantity=0 and Dates=2020

Output:

BOOKNAME
Social Media

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Submitted by: Gelle Hruthesh Reddy, 20BCB7031