

LAB PROGRAM 7:

```
create database book_dealer;
```

```
use book_dealer;
```

```
create table author (
```

```
author_id INT,
```

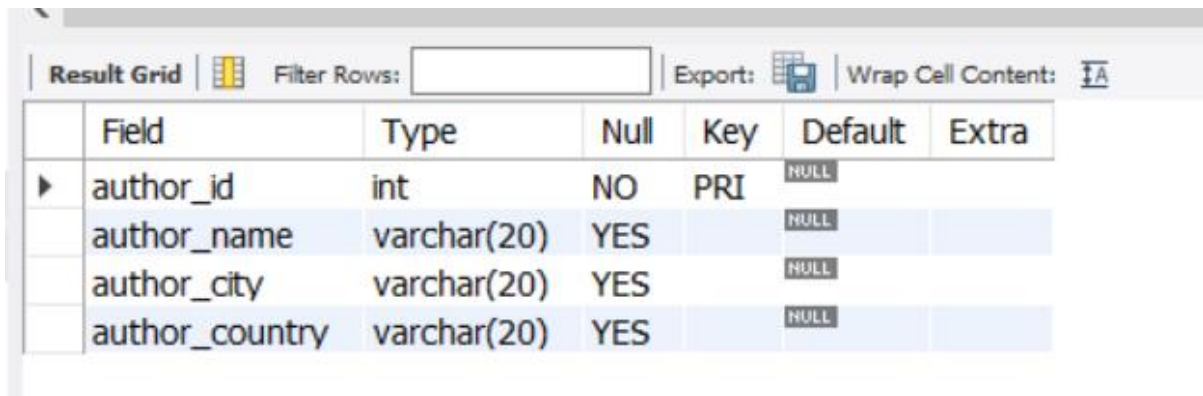
```
author_name VARCHAR(20),
```

```
author_city VARCHAR(20),
```

```
author_country VARCHAR(20),
```

```
PRIMARY KEY(author_id));
```

```
desc author;
```



	Field	Type	Null	Key	Default	Extra
▶	author_id	int	NO	PRI	NULL	
	author_name	varchar(20)	YES		NULL	
	author_city	varchar(20)	YES		NULL	
	author_country	varchar(20)	YES		NULL	

```
create table publisher (
```

```
publisher_id INT,
```

```
publisher_name VARCHAR(20),
```

```
publisher_city VARCHAR(20),
```

```
publisher_country VARCHAR(20),
```

```
PRIMARY KEY(publisher_id));
```

```
desc publisher;
```

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	publisher_id	int	NO	PRI	NULL	
	publisher_name	varchar(20)	YES		NULL	
	publisher_city	varchar(20)	YES		NULL	
	publisher_country	varchar(20)	YES		NULL	

```
create table category (
category_id INT,
description VARCHAR(30),
PRIMARY KEY(category_id));
desc category;
```

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	category_id	int	NO	PRI	NULL	
	description	varchar(30)	YES		NULL	

```
CREATE TABLE catalog(
book_id INT,
book_title VARCHAR(30),
author_id INT,
publisher_id INT,
category_id INT,
year INT,
price INT,
PRIMARY KEY(book_id),
FOREIGN KEY(author_id) REFERENCES author(author_id),
```

```
FOREIGN KEY(publisher_id) REFERENCES publisher(publisher_id),
FOREIGN KEY(category_id) REFERENCES category(category_id) );
desc catalog;
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	book_id	int	NO	PRI	NULL	
	book_title	varchar(30)	YES		NULL	
	author_id	int	YES	MUL	NULL	
	publisher_id	int	YES	MUL	NULL	
	category_id	int	YES	MUL	NULL	
	year	int	YES		NULL	
	price	int	YES		NULL	

```
CREATE TABLE orderdetails(
order_id INT,
book_id INT,
quantity INT,
PRIMARY KEY(order_id),
FOREIGN KEY(book_id) REFERENCES catalog(book_id));
desc orderdetails;
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	order_id	int	NO	PRI	NULL	
	book_id	int	YES	MUL	NULL	
	quantity	int	YES		NULL	

```
INSERT INTO author (author_id,author_name,author_city,author_country)
VALUES
(1001,'JK Rowling','London','England'),
```

(1002,'Chetan Bhagat','Mumbai','India'),

(1003,'John McCarthy','Chicago','USA'),

(1004,'Dan Brown','California','USA') ;

select * from author;



	author_id	author_name	author_city	author_country
▶	1001	JK Rowling	London	England
	1002	Chetan Bhagat	Mumbai	India
	1003	John McCarthy	Chicago	USA
	1004	Dan Brown	California	USA
*	NULL	NULL	NULL	NULL

INSERT INTO publisher

(publisher_id,publisher_name,publisher_city,publisher_country) VALUES

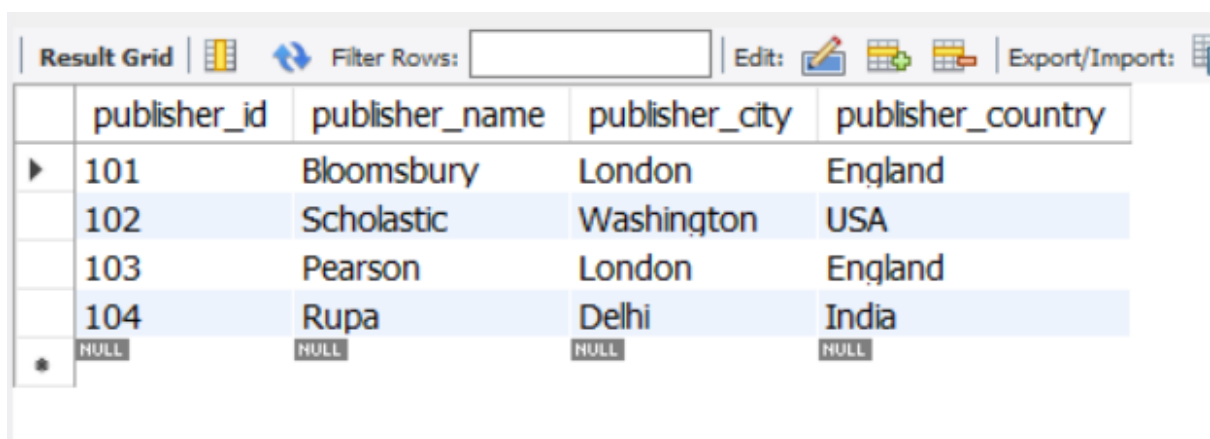
(101,'Bloomsbury','London','England'),

(102,'Scholastic','Washington','USA'),

(103,'Pearson','London','England'),

(104,'Rupa','Delhi','India');

select * from publisher;



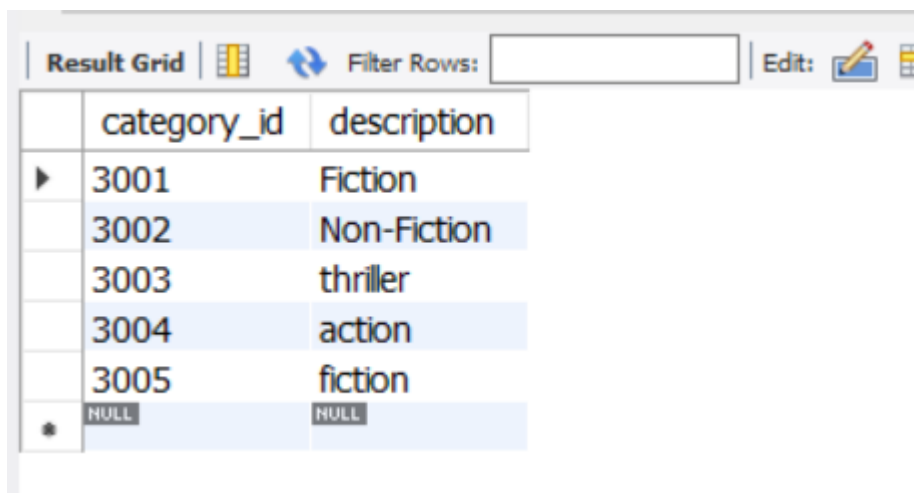
	publisher_id	publisher_name	publisher_city	publisher_country
▶	101	Bloomsbury	London	England
	102	Scholastic	Washington	USA
	103	Pearson	London	England
	104	Rupa	Delhi	India
*	NULL	NULL	NULL	NULL

INSERT INTO category (category_id,description) VALUES

```

(3001,'Fiction'),
(3002,'Non-Fiction'),
(3003,'thriller'),
(3004,'action'),
(3005,'fiction') ;
select * from category;

```



	category_id	description
▶	3001	Fiction
	3002	Non-Fiction
	3003	thriller
	3004	action
	3005	fiction
•	NULL	NULL

```

INSERT INTO catalog
(book_id,book_title,author_id,publisher_id,category_id,year,price) VALUES
(4001,'HP and Goblet Of Fire',1001,101,3001,2002,600),
(4002,'HP and Order Of Phoenix',1001,102,3001,2005,650),
(4003,'Two States',1002,104,3001,2009,65),
(4004,'3 Mistakes of my life',1002,104,3001,2007,55),
(4005,'Da Vinci Code',1004,103,3001,2004,450),
(4006,'Angels and Demons',1004,103,3001,2003,350),
(4007,'Artificial Intelligence',1003,102,3002,1970,500);
select * from catalog;

```

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	book_id	book_title	author_id	publisher_id	category_id	year	price
▶	4001	HP and Goblet Of Fire	1001	101	3001	2002	600
	4002	HP and Order Of Phoenix	1001	102	3001	2005	650
	4003	Two States	1002	104	3001	2009	65
	4004	3 Mistakes of my life	1002	104	3001	2007	55
	4005	Da Vinci Code	1004	103	3001	2004	450
	4006	Angels and Demons	1004	103	3001	2003	350
	4007	Artificial Intelligence	1003	102	3002	1970	500
✱	NULL	NULL	NULL	NULL	NULL	NULL	NULL

INSERT INTO orderdetails (order_id,book_id,quantity) VALUES

(5001,4001,5),

(5002,4002,7),

(5003,4003,15),

(5004,4004,11),



(5005,4005,9),

(5006,4006,8),

(5007,4007,2),

(5008,4004,3) ;

select * from orderdetails;

Result Grid			 Filter Rows: <input type="text"/>
	order_id	book_id	quantity
▶	5001	4001	5
	5002	4002	7
	5003	4003	15
	5004	4004	11
	5005	4005	9
	5006	4006	8
	5007	4007	2
	5008	4004	3
✱	NULL	NULL	NULL

```
select a.author_id,a.author_city,a.author_name,a.author_city
from author a join catalog c on a.author_id=c.author_id where
year>2000 and c.author_id in(select c.author_id from catalog having
count(c.author_id)>2 and price>500 );
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
author_id	author_city	author_name	author_city
1001	London	JK Rowling	London
1001	London	JK Rowling	London

```
select a.author_id from author a join catalog c on
a.author_id=c.author_id join orderdetails o on c.book_id=o.book_id
having max(o.quantity);
```

Result Grid

Filter Rows:

Export:

	author_id
▶	1001

```
update catalog set price=(0.1*price)+price where publisher_id=2001;
select * from catalog;
commit;
```

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	book_id	book_title	author_id	publisher_id	category_id	year	price
▶	4001	HP and Goblet Of Fire	1001	101	3001	2002	600
	4002	HP and Order Of Phoenix	1001	102	3001	2005	650
	4003	Two States	1002	104	3001	2009	65
	4004	3 Mistakes of my life	1002	104	3001	2007	55
	4005	Da Vinci Code	1004	103	3001	2004	450
	4006	Angels and Demons	1004	103	3001	2003	350
	4007	Artificial Intelligence	1003	102	3002	1970	500
✱	NULL	NULL	NULL	NULL	NULL	NULL	NULL