# **Book Dealer DB**

# **BOOK DEALER DB**

### **AUTHOR**

Author_id	Name	City	Country
Author_id	Name	City	Country

## **PUBLISHER**

Publisher_id	Name	City	Country
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### **CATALOG**

book_id title author_id publisher_id category_1d year pri	book_id	_id title	author_id	publisher_id	category_1d	year	price
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### **CATEGORY**

category id	description
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### **ORDER DETAILS**

# **Queries Used to CREATE and INSERT**

```
create table author(author_id int,name varchar(10),city
varchar(10),country varchar(10),primary key(author_id));
    create table publisher(publisher_id int,name varchar(10),city
varchar(10),country varchar(10),primary key(publisher_id));
    create table category(category_id int,description varchar(10),primary
key(category_id));
    create table catalog(book_id int,title varchar(10),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));
    create table order_details(order_no int,book_id int,quantity int,primary
key(order_no,book_id),foreign key(book_id) references catalog(book_id));
```

```
insert into author values(1001, 'Vikas', 'Bangalore', 'India');
insert into author values(1002, 'Ben', 'Kerala', 'India');
insert into author values(1003, 'John', 'Bangkok', 'Singapore');
insert into author values(1004,'Livy','Helsinki','Finland');
insert into author values(1005, 'Centi', 'LA', 'USA');
insert into publisher values(2001, 'Luis', 'LA', 'USA');
insert into publisher values(2002,'veta','Helsinki','USA');
insert into publisher values (2003, 'thing', 'Bangkok', 'USA');
insert into publisher values (2004, 'scolastic', 'Stipples', 'USA');
insert into publisher values(2005, 'DnB', 'Bangalore', 'USA');
insert into category values(3001, 'Horror');
insert into category values(3002, 'Fiction');
insert into category values(3003,'Love');
insert into category values(3004,'Intellect');
insert into category values(3005, 'Edu');
insert into catalog values (4001, 'Abc', 1001, 2002, 3002, 2010, 1000);
insert into catalog values (4002, 'Pqr', 1003, 2002, 3001, 2012, 500);
insert into catalog values (4003, 'Xyz', 1004, 2003, 3003, 2011, 2000);
insert into catalog values (4004, 'Sdf', 1005, 2005, 3004, 2014, 500);
insert into catalog values(4005, 'Jkl', 1002, 2004, 3001, 2015, 400);
insert into catalog values (4006, 'Jdl', 1001, 2003, 3002, 2010, 3000);
insert into catalog values (4007, 'Lmn', 1001, 2004, 3002, 2010, 3000);
insert into catalog values (4008, 'Cee', 1003, 2002, 3001, 2010, 2500);
insert into catalog values (4009, 'Jee', 1003, 2004, 3001, 2010, 3000);
insert into catalog values (4010, 'Qee', 1003, 2002, 3001, 2010, 4000);
insert into catalog values (4011, 'Abc', 1001, 2002, 3004, 2010, 3500);
insert into catalog values (4012, 'Abc', 1001, 2002, 3004, 2010, 3500);
insert into order details values (5001, 4002, 4);
insert into order details values (5002, 4001, 2);
insert into order details values (5003, 4003, 1);
insert into order details values (5004, 4004, 3);
insert into order details values (5005, 4003, 4);
```

# WEBSITE USED FOR MYSQL

Link: http://sqlfiddle.com/

# **Queries**

1. Create the above tables by properly specifying the primary keys and foreign keys.

```
create table author(author_id int,name varchar(10),city
varchar(10),country varchar(10),primary key(author_id));
    create table publisher(publisher_id int,name varchar(10),city
varchar(10),country varchar(10),primary key(publisher_id));
    create table category(category_id int,description varchar(10),primary
key(category_id));
    create table catalog(book_id int,title varchar(10),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));
    create table order_details(order_no int,book_id int,quantity int,primary
key(order_no,book_id),foreign key(book_id) references catalog(book_id));
```

2. Enter at least five tuples for each relation.

```
insert into author values(1001,'Vikas','Bangalore','India');
insert into author values(1002,'Ben','Kerala','India');
insert into author values(1003,'John','Bangkok','Singapore');
insert into author values(1004,'Livy','Helsinki','Finland');
insert into author values(1005,'Centi','LA','USA');

insert into publisher values(2001,'Luis','LA','USA');
insert into publisher values(2002,'veta','Helsinki','USA');
insert into publisher values(2003,'thing','Bangkok','USA');
insert into publisher values(2004,'scolastic','Stipples','USA');
insert into publisher values(2005,'DnB','Bangalore','USA');
insert into category values(3001,'Horror');
```

```
insert into category values(3002, 'Fiction');
insert into category values(3003, 'Love');
insert into category values(3004,'Intellect');
insert into category values(3005, 'Edu');
insert into catalog values (4001, 'Abc', 1001, 2002, 3002, 2010, 1000);
insert into catalog values(4002, 'Pqr', 1003, 2002, 3001, 2012, 500);
insert into catalog values (4003, 'Xyz', 1004, 2003, 3003, 2011, 2000);
insert into catalog values (4004, 'Sdf', 1005, 2005, 3004, 2014, 500);
insert into catalog values (4005, 'Jkl', 1002, 2004, 3001, 2015, 400);
insert into catalog values (4006, 'Jdl', 1001, 2003, 3002, 2010, 3000);
insert into catalog values (4007, 'Lmn', 1001, 2004, 3002, 2010, 3000);
insert into catalog values (4008, 'Cee', 1003, 2002, 3001, 2010, 2500);
insert into catalog values (4009, 'Jee', 1003, 2004, 3001, 2010, 3000);
insert into catalog values (4010, 'Qee', 1003, 2002, 3001, 2010, 4000);
insert into catalog values (4011, 'Abc', 1001, 2002, 3004, 2010, 3500);
insert into catalog values (4012, 'Abc', 1001, 2002, 3004, 2010, 3500);
insert into order details values (5001, 4002, 4);
insert into order details values (5002, 4001, 2);
insert into order details values (5003, 4003, 1);
insert into order details values (5004, 4004, 3);
insert into order details values (5005, 4003, 4);
```

3. Give the details of the authors who have 2 or more books in the catalog and the price of the books is greater than the average price of the books in the catalog and the year of publication is after 2000.

```
select distinct author_id ,count(*) from catalog
where year = 2010 and price > (select avg(price) from catalog)
group by author_id having count(*) > 2;
select avg(price) from catalog; //Average price
```

author_id	count (*)
1001	3

author_id	count (*)
1003	3

# avg(price)

2127

4. Find the author of the book that has maximum sales.

name	author_id
Livy	1004

5. Demonstrate how you increase the price of books published by a specific publisher by 10%.

```
update catalog
set price = price + price*0.1;
```

# **Before**

# price 400 3000 3000 2500 3000 4000 3500

# **After**

price
1100
550
2200
550
440
3300
3300
2750
3300
4400
3850
3850