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PROGRAM NUMBER 7: BOOK DEALER

AUTHOR(author-id: int, name: String, city: String, country: String)

PUBLISHER(publisher-id: int, name: String, city: String, country: String)

CATALOG (book-id: int, title: String, author-id: int, publisher-id: int, category-id: int, year: int, price: int)

CATEGORY(category-id: int, description: String)

ORDER-DETAILS(order-no: int, book-id: int, quantity: int)

- i. Create the above tables by properly specifying the primary keys and the foreign keys.
 - ii. Enter at least five tuples for each relation.
 - iii. Give the details of the authors who have 2 or more books in the catalog and the price of the books in the catalog and the year of publication is after 2000.
 - iv. Find the author of the book which has maximum sales.
 - v. Demonstrate how you increase the price of books published by a specific publisher by 10%.
- create database book_dealer;

```
use book_dealer;
create table author(
author_id int,
name varchar(30),
city varchar(20),
country varchar(20),
constraint auth_id primary key (author_id)
);
create table publisher(
publisher_id int,
name varchar(30),
city varchar (30),
country varchar(30),
constraint pub_id primary key (publisher_id)
);
```

```
create table category(
category_id int,
description varchar(30),
constraint primary key (category_id)
);
create table catalog(
book_id int ,
title varchar(30),
```

```

author_id int,
publisher_id int ,
category_id int,
year int,
price int,
constraint cat_id primary key(book_id),
constraint cat_auth foreign key (author_id) references author(author_id) on delete cascade on
update cascade,
constraint cat_pub foreign key (publisher_id) references publisher(publisher_id) on delete
cascade on update cascade ,
constraint cat_log foreign key (category_id) references category(category_id) on delete cascade
on update cascade
);
create table order_details (
order_no int,
book_id int,
quantity int,
constraint ord_no primary key (order_no),
constraint ord_id foreign key (book_id) references catalog(book_id) on delete cascade on
update cascade
);

```

-- ii. Inserting tuples

```

insert into author values(1001,'TERAS CHAN','CA','USA');
insert into author values(1002,'STEVENS','ZOMBI','UGANDA');
insert into author values(1003,'M MANO','CAIR','CANADA');
insert into author values(1004,'KARTHIK B.P.','NEW YORK','USA');
insert into author values(1005,'WILLIAM STALLINGS','LAS VEGAS','USA');

```

```

insert into publisher values(1,'PEARSON','NEW YORK','USA');
insert into publisher values(2,'EEE','NEW SOUTH VALES','USA');
insert into publisher values(3,'PHI','DELHI','INDIA');
insert into publisher values(4,'WILLEY','BERLIN','GERMANY');
insert into publisher values(5,'MGH','NEW YORK','USA');

```

```

insert into category values(1001,'COMPUTER SCIENCE');
insert into category values(1002,'ALGORITHM DESIGN');
insert into category values(1003,'ELECTRONICS');
insert into category values(1004,'PROGRAMMING');
insert into category values(1005,'OPERATING SYSTEMS');

```

```

insert into catalog values(11,'Unix System Prg',1001,1,1001,2000,251);
insert into catalog values(12,'Digital Signals',1002,2,1003,2001,425);

```

```

insert into catalog values(13,'Logic Design',1003,3,1002,1999,225);
insert into catalog values(14,'Server Prg',1004,4,1004,2001,333);
insert into catalog values(15,'Linux OS',1005,5,1005,2003,326);
insert into catalog values(16,'C++ Bible',1005,5,1001,2000,526);
insert into catalog values(17,'COBOL Handbook',1005,4,1001,2000,658);

```

```

insert into order_details values(1,11,5);
insert into order_details values(2,12,8);
insert into order_details values(3,13,15);
insert into order_details values(4,14,22);
insert into order_details values(5,15,3);
insert into order_details values(6,17,10);

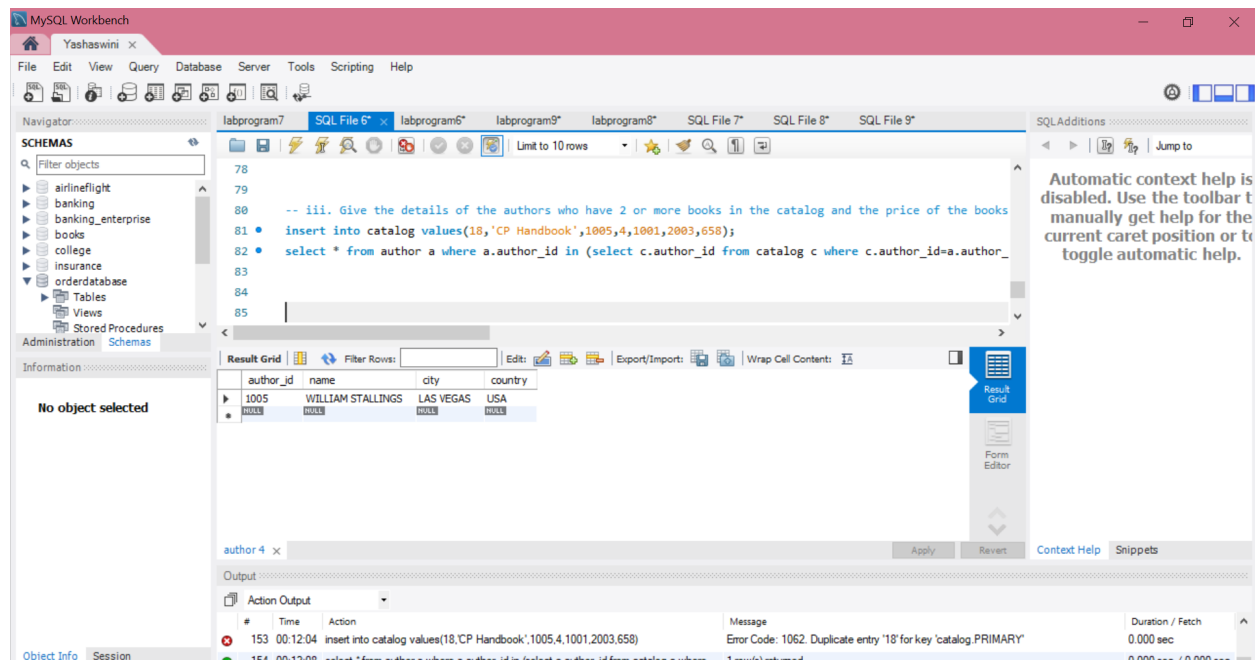
```

-- iii. Give the details of the authors who have 2 or more books in the catalog and the price of the books in the catalog and the year of publication is after cataloger 2000. select * from author a where a.author_id in (select c.author_id from catalog c where c.author_id=a.author_id and year>2000 having count(*)>=2);

```

insert into catalog values(18,'CP Handbook',1005,4,1001,2003,658);
select * from author a where a.author_id in (select c.author_id from catalog c where
c.author_id=a.author_id and year>2000 having count(*)>=2);

```

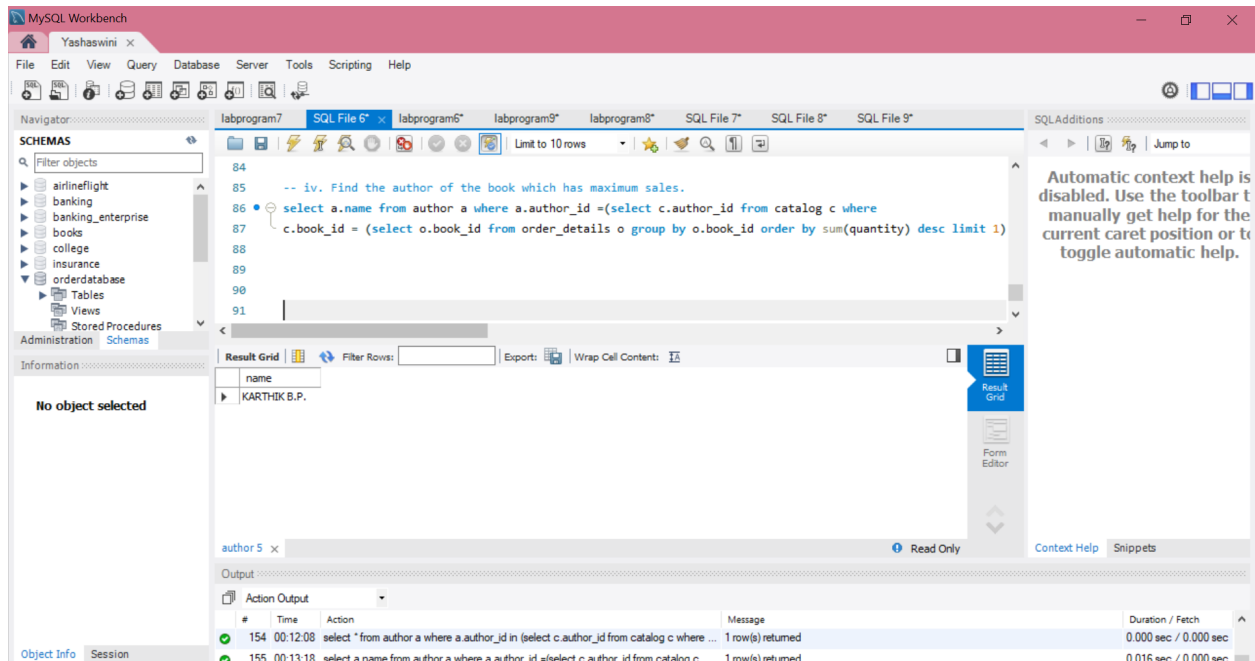


-- iv. Find the author of the book which has maximum sales.

```

select a.name from author a where a.author_id =(select c.author_id from catalog c where
c.book_id = (select o.book_id from order_details o group by o.book_id order by sum(quantity)
desc limit 1));

```



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

select c.book_id,(1.10*price) as price from catalog c where c.publisher_id in (select p.publisher_id from publisher p where P.name="MGH");

