NAME: KUSUM M R DATE:05/05/2021

USN:1BM19CS077

DBMS LAB-2

BOOK DEALER DATABASE

QUESTION:

The following tables are maintained by a 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%.

PROGRAM CODE:

create database bookdealer; use bookdealer;

create table AUTHOR (

author id int,

name varchar(20),

city varchar(15),

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country varchar(15),
primary key(author_id)
);
show tables;
desc AUTHOR;
SELECT *FROM AUTHOR;
create table PUBLISHER (
publisher id int,
name varchar(20),
city varchar(15),
country varchar(15),
primary key(publisher_id)
);
create table CATEGORY(
category_id int,
description varchar(20),
primary key(category_id)
);
show tables;
desc CATEGORY;
SELECT *FROM CATEGORY;
create table CATALOG (
book_id int,
title varchar(15),author_id int,publisher_id int,category_id int,
foreign key(author_id) references AUTHOR(author_id) on delete cascade,
foreign key(publisher_id) references PUBLISHER(publisher_id) on delete cascade,
foreign key(category_id) references CATEGORY(category_id) on delete cascade,
year int,
price int,
```

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primary key(book_id)
);
show tables;
desc CATALOG;
SELECT *FROM CATALOG;
create table ORDER_DETAILS (
order_no int,book_id int,
foreign key(book id) references CATALOG(book id) on delete cascade,
quantity int
);
show tables;
desc ORDER DETAILS;
SELECT *FROM ORDER_DETAILS;
insert into AUTHOR(author id,name,city,country)values(1001, TERAS CHAN', 'CA', 'USA');
insert into
AUTHOR(author id,name,city,country)values(1002,'STEVENS','ZOMBI','UGANDA');
insert into AUTHOR(author_id,name,city,country)values(1003,'M MANO','CAIR','CANADA');
insert into AUTHOR(author id,name,city,country)values(1004,'KARTHIK B.P','NEW
YORK','USA');
insert into AUTHOR(author id,name,city,country)values(1005,'WILLIAM STALLINGS','LAS
VEGAS','USA');
COMMIT;
desc AUTHOR;
SELECT *FROM AUTHOR;
insert into PUBLISHER(publisher_id,name,city,country)values(1,'PEARSON','NEW
YORK', 'USA');
insert into PUBLISHER(publisher_id,name,city,country)values(2,'EEE','NEW SOUTH
VALES','USA');
insert into PUBLISHER(publisher id,name,city,country)values(3,'PHI','DELHI','INDIA');
insert into
PUBLISHER(publisher id,name,city,country)values(4,'WILLEY','BERLIN','GERMANY');
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insert into PUBLISHER(publisher_id,name,city,country)values(5,'MGH ','NEW YORK','USA');
COMMIT;
desc PUBLISHER;
SELECT *FROM PUBLISHER;
insert into CATEGORY(category_id,description)values(1001,'COMPUTER SCIENCE');
insert into CATEGORY(category_id,description)values(1002,'ALGORITHM DESIGN');
insert into CATEGORY(category_id,description)values(1003,'ELECTRONICS');
insert into CATEGORY(category id,description)values(1004,'PROGRAMMING');
insert into CATEGORY(category id,description)values(1005,'OPERATING SYSTEMS');
COMMIT;
desc CATEGORY;
SELECT *FROM CATEGORY;
insert into
CATALOG(book id,title,author id,publisher id,category id,year,price)values(11,'Unix
System Prg',1001,1,1001,2000,251);
insert into
CATALOG(book id,title,author id,publisher id,category id,year,price)values(12,'Digital
Signals',1002,2,1003,2001,425);
insert into
CATALOG(book_id,title,author_id,publisher_id,category_id,year,price)values(13,'Logic
Design',1003,3,1002,1999,225);
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insert into

CATALOG(book_id,title,author_id,publisher_id,category_id,year,price)values(14,'Server Prg',1004,4,1004,2001,333);

insert into

CATALOG(book_id,title,author_id,publisher_id,category_id,year,price)values(15,'Linux OS',1005,5,1005,2003,326);

insert into

CATALOG(book_id,title,author_id,publisher_id,category_id,year,price)values(16,'C++ Bible',1005,5,1001,2000,526);

insert into

CATALOG(book_id,title,author_id,publisher_id,category_id,year,price)values(17,'COBOL Handbook',1005,4,1001,2000,658);

COMMIT;

```
desc CATALOG;
SELECT *FROM CATALOG;
insert into ORDER DETAILS(order no, book id, quantity) values (1,11,5);
insert into ORDER DETAILS(order no, book id, quantity) values (2,12,8);
insert into ORDER_DETAILS(order_no,book_id,quantity)values(3,13,15);
insert into ORDER_DETAILS(order_no,book_id,quantity)values(4,14,22);
insert into ORDER_DETAILS(order_no,book_id,quantity)values(5,15,3);
insert into ORDER DETAILS(order no,book id,quantity)values(2,17,10);
COMMIT;
desc ORDER DETAILS;
SELECT *FROM ORDER DETAILS;
SELECT AUTHOR.author id,name,city,country FROM AUTHOR,CATALOG where
AUTHOR.author id=CATALOG.author id group by CATALOG.author id having
count(CATALOG.author id)>=2;
SELECT PRICE FROM CATALOG where year>2000;
select name from AUTHOR, CATALOG where AUTHOR. author id=CATALOG. author id and
book_id in(select book_id from ORDER_DETAILS where quantity=(select max(quantity) from
ORDER_DETAILS));
update CATALOG set price=1.1*price where publisher id in(select publisher id from
PUBLISHER where name='PEARSON');
COMMIT;
SELECT *FROM CATALOG;
```

OUTPUT SCREENSHOTS:

















