

# DBMS

# Assignment

# 2

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3<sup>rd</sup> year

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**Catalog ( bookid, pubid, title, author )**

**Publisher ( pubid, pubname, title )**

**Order ( bookid, type, author, price, quantity,year)**

Catalog table

```
mysql> create table catalog59
-> (bookid int primary key,
-> pubid int,
-> title varchar(30),
-> author varchar(30),
-> foreign key(bookid) references order59(bookid)
-> on delete cascade on update cascade,
-> foreign key(pubid) references publisher59(pubid)
-> on delete cascade on update cascade);
Query OK, 0 rows affected (0.47 sec)
```

```
mysql> select * from catalog59;
+----+-----+-----+-----+
| bookid | pubid | title          | author |
+----+-----+-----+-----+
| 1      | 102   | automata theory | ullman |
| 2      | 101   | microprocessor  | goankar |
| 3      | 100   | engg maths     | grewal |
| 4      | 102   | architecture   | mano   |
| 5      | 100   | data structure  | schaum |
+----+-----+-----+-----+
5 rows in set (0.00 sec)
```

## Publisher table

```
mysql> select * from publisher59;
```

pubid	pubname	title
100	tata mcgraw hills	tmh
101	beni prasad hilala	bpb
102	pearson	pp

```
3 rows in set (0.00 sec)

mysql>
```

```
mysql> create table publisher59
-> (
-> pubid int primary key,
-> pubname varchar(50),
-> title varchar(20)
-> );
Query OK, 0 rows affected (0.34 sec)

mysql> _
```

## Order table

```
mysql> select * from order59;
```

bookid	type	author	price	quantity	year
1	computer	ullman	160	25	2007
2	electronics	goankar	240	28	2009
3	maths	grewal	3500	60	2011
4	computer	mano	180	52	2005
5	computer	schaum	190	38	2010

```
5 rows in set (0.00 sec)
```

```
mysql>
mysql> create table order59
-> (
-> bookid int primary key,
-> type varchar(15),
-> author varchar(20),
-> price int,
-> quantity int,
-> year int
-> );
Query OK, 0 rows affected (0.41 sec)

mysql>
```

## 1. Increase the price of all books of computer type by 15% published by BPB.

Ans:- update order59 o, catalog59 c , publisher59 p set o.price=o.price+0.15\*o.p  
rice where o.bookid=c.bookid and c.pubid=p.pubid and p.title='bpb' and o.type='c  
omputer';

```
mysql> update order59 o, catalog59 c, publisher59 p set o.price=o.price+0.15*o.p
rice where o.bookid=c.bookid and c.pubid=p.pubid and p.title='bpb' and o.type='c
omputer';
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0

mysql> select * from order59;
```

bookid	type	author	price	quantity	year
1	computer	ullman	160	25	2007
2	electronics	goankar	240	28	2009
3	maths	grewal	3500	60	2011
4	computer	mano	180	52	2005
5	computer	schaum	190	38	2010

```
5 rows in set (0.00 sec)
```

## 2. Display the maximum price of books.

Ans:- select max(price) from Order59;

```
mysql> select max(price) from order59;
```

max(price)
3500

```
1 row in set (0.00 sec)

mysql>
```

## 3. Display the second highest price of books.

Ans:- select max(price) from Order59 where price not  
in (select max(price) from order59);

```
mysql> select max(price) from order59 where price not in (select max(price) from
order59);
+-----+
| max(price) |
+-----+
|         240 |
+-----+
1 row in set (0.00 sec)

mysql> _
```

#### 4. Get the pubid, pubname of all the books whose quantity > 50.

Ans:- select p.pubid, p.pubname, c.title, o.quantity  
from Publisher59 p , Order59 o, Catalog59 c where  
p.pubid = c.pubid and c.bookid = o.bookid and  
o.quantity > 50;

```
mysql>
mysql> select p.pubid, p.pubname, o.quantity from publisher59 p, order59 o, cata
log59 c where p.pubid=c.pubid and c.bookid=o.bookid and o.quantity>50;
+-----+-----+-----+
| pubid | pubname          | quantity |
+-----+-----+-----+
|    100 | tata mcgraw hills |        60 |
|    102 | pearson           |        52 |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> _
```

#### 5. Get total price of all the books published in year 2005.

Ans:- select sum(price\*quantity) from Order59 where  
year=2005;

```
mysql> use shreyansh
Database changed
mysql> select sum(price*quantity) from order59 where year=2005;
+-----+
| sum(price*quantity) |
+-----+
|          NULL       |
+-----+
1 row in set (0.00 sec)

mysql> _
```

## 6. Get the pubname, author of all the books.

Ans:- select p.pubname, c.author from Publisher59 p, Catalog59 c where p.pubid=c.pubid;

```
mysql> select p.pubname, c.author from publisher59 p, catalog59 c where p.pubid=c.pubid;
```

pubname	author
tata mcgraw hills	grewal
tata mcgraw hills	schaum
beni prasad hilala	goankar
pearson	ullman
pearson	mano

5 rows in set (0.00 sec)


## 7. Find name of all the author whose second character is 'n'.

Ans:- select author from Catalog59 where author like '\_n%';

```
mysql> select author from catalog59 where author like '_n%';
```

Empty set (0.00 sec)

```
mysql>
```



## 8. Change year of publishing of all the books from 2005 to 2008 where quantity > 10.

Ans:- update Order59 set year=2008 where year=2005 and quantity>10;

```
mysql> update order59 set year=2008 where year=2005 and quantity>10;
Query OK, 1 row affected (0.04 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from order59;
+-----+-----+-----+-----+-----+-----+
| bookid | type      | author | price | quantity | year |
+-----+-----+-----+-----+-----+-----+
| 1      | computer  | ullman | 160   | 25       | 2007 |
| 2      | electronics | goankar | 240   | 28       | 2009 |
| 3      | maths     | grewal | 3500  | 60       | 2011 |
| 4      | computer  | mano   | 180   | 52       | 2008 |
| 5      | computer  | schaum | 190   | 38       | 2010 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```