

DBMS

Assignment

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11CSS-59

5th Semester

q1) get the title, author name, publisher name for author whose city contain total no of a=2.

select title, authname, pubname from author159 a, book159 b, why159 c where authcity like '%a%a%' and a.authid=c.authid and b.bookid=c.bookid;

```
mysql> select * from author159;
+-----+-----+-----+-----+
| authid | authname | authcity | age |
+-----+-----+-----+-----+
| 1 | pankaj | bhopal | 1993-04-21 |
| 2 | chodhary | agra | 1993-03-08 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> select * from book159;
+-----+-----+-----+-----+
| bookid | title | pages | copyright |
+-----+-----+-----+-----+
| 1 | malgude days | 159 | yes |
| 2 | panchtantra | 87 | yes |
| 3 | champak | 32 | no |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from why159;
+-----+-----+-----+
| bookid | authid | pubname |
+-----+-----+-----+
| 1 | 1 | TMH |
| 2 | 1 | pearson |
| 3 | 2 | orily |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select title, authname, pubname from author159 a, book159 b, why159 c where authcity like '%a%a%' and a.authid=c.authid and b.bookid=c.bookid;
+-----+-----+-----+
| title | authname | pubname |
+-----+-----+-----+
| champak | chodhary | orily |
+-----+-----+-----+
1 row in set (0.25 sec)

mysql>
```

q2) give the details of the book which is written by at least two authors.

select * from book159 where bookid in (select bookid from why159 group by bookid having count(*)>=2);

```
mysql> select * from book159;
```

bookid	title	pages	copyright
1	malgude days	159	yes
2	panchtantra	87	yes
3	champak	32	no

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

```
mysql> select * from author159;
```

authid	authname	authcity	age
1	pankaj	bhopal	1993-04-21
2	chodhary	agra	1993-03-08

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

```
mysql> select * from why159;
```

bookid	authid	pubname
1	1	TMH
2	1	pearson
2	2	pearson
3	2	orily

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

```
mysql> select * from book159 where bookid in (select bookid from why159 group by
bookid having count(*)>=2);
```

bookid	title	pages	copyright
2	panchtantra	87	yes

```
1 row in set (0.00 sec)
```

```
mysql>
```

q3) write a stored procedure (insertintoauth) to insert the author information.

```
create function agevalidate159(ag date) returns int
begin
declare diff int;
set diff=Datediff(sysdate(),ag);
if diff>6575 and diff<21915 then
return 1;
else
return 0;
end if;
end#
```

```
create procedure insertintoauth159(in id int,name
varchar(20),city varchar(20),age date)
begin
declare c int;
set c=(select count(*) from author159 where
authid=id);
if c>0 then
select 'Author ID already exists';
else
if agevalidate159(date) =1 then
```

```
insert into author159 values(id,name,city,age);
else
select 'Condition Not Satisfied';
end if;
end if;
end#
```

```
Query OK, 0 rows affected (0.00 sec)

mysql> create function agevalidate159(ag date) returns int
-> begin
-> declare diff int;
-> set diff=Datediff(sysdate(),ag);
-> if diff>6575 and diff<21915 then
-> return 1;
-> else
-> return 0;
-> end if;
-> end#
Query OK, 0 rows affected (0.00 sec)

mysql> create procedure insertintoauth159(in id int,name varchar(20),city varchar(20),age date)
-> begin
-> declare c int;
-> set c=(select count(*) from author159 where authid=id);
-> if c>0 then
-> select 'Author ID already exists';
-> else
-> if agevalidate159(date) =1 then
-> insert into author159 values(id,name,city,age);
-> else
-> select 'Condition Not Satisfied';
-> end if;
-> end if;
-> end#
Query OK, 0 rows affected (0.00 sec)

mysql>
```



q4) write a stored procedure (insertbookinfo) to insert the book informaton such as bookid, title, no of pages, copyright, authorid, publisher name.

```
create procedure insertwby159(in bid int, id int,
pbname varchar(20))
begin
insert into wby159 values(bid,id,pbname);
end#
```

```
create procedure insertbook159(in bid int, cp
varchar(5), title varchar(20), pages int, id int, pbname
varchar(20))
begin
declare ct int;
set ct=(select count(*) from book159 where
bookid=bid);
if ct>0 then
select 'Book ID already exists';
else
insert into book159 values(bid,title,pages,cp);
call insertwby159(bid,id,pbname);
end if;
end#
```

```
create procedure insertbookinfo159(in bid int, title
varchar(20), pages int, cp varchar(5), id int, pbname
varchar(20))
```

```

begin
declare ct int;
set ct=(select count(*) from author159 where
authid=id);
if ct=0 then
select 'ERROR';
else
call insertbook159(bid,cp,title,pages,id,pbname);
end if;
end#

```

```

mysql> delimiter #
mysql> create procedure insertwhy159(in bid int, id int, pbname varchar(20))
-> begin
-> insert into why159 values(bid,id,pbname);
-> end#
Query OK, 0 rows affected (0.00 sec)

mysql> create procedure insertbook159(in bid int, cp varchar(5), title varchar(20), pages int, id int, pbname varchar(20))
-> begin
-> declare ct int;
-> set ct=(select count(*) from book159 where bookid=bid);
-> if ct>0 then
-> select 'Book ID already exists';
-> else
-> insert into book159 values(bid,title,pages,cp);
-> call insertwhy159(bid,id,pbname);
-> end if;
-> end#
Query OK, 0 rows affected (0.00 sec)

mysql> create procedure insertbookinfo159(in bid int, title varchar(20), pages int, cp varchar(5), id int, pbname varchar(20))
-> begin
-> declare ct int;
-> set ct=(select count(*) from author159 where authid=id);
-> if ct=0 then
-> select 'ERROR';
-> else
-> call insertbook159(bid,cp,title,pages,id,pbname);
-> end if;
-> end#
Query OK, 0 rows affected (0.00 sec)

mysql> call insertbookinfo159(4,'pinky',56,'yes',2,'lala ram');
-> #
Query OK, 1 row affected (0.56 sec)

mysql>

```

```

--> select ERROR ,
--> else
--> call insertbook159<bid,cp,title,pages,id,pbname>;
--> end if;
--> end#
Query OK, 0 rows affected (0.00 sec)

mysql> call insertbookinfo159<4,'pinky',56,'yes',2,'lala ram'>;
--> #
Query OK, 1 row affected (0.56 sec)

mysql> select * from book159;
--> #
+-----+-----+-----+-----+
| bookid | title       | pages | copyright |
+-----+-----+-----+-----+
| 1      | malgude days | 159   | yes       |
| 2      | panchtantra  | 87    | yes       |
| 3      | champak      | 32    | no        |
| 4      | pinky        | 56    | yes       |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> delimiter ;
mysql> select * from why159;
+-----+-----+-----+
| bookid | authid | pubname |
+-----+-----+-----+
| 1      | 1      | TMH     |
| 2      | 1      | pearson |
| 2      | 2      | pearson |
| 3      | 2      | orily   |
| 4      | 2      | lala ram |
+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>

```

q5) write a stored procedure to delete the author information using its authid.

```

create procedure delaauthor159(in id int)
begin
declare ct int;
declare str varchar(100) default "";
set ct=(select count(*) from why159 where authid=id);
if ct>0 then
set str=concat(str,"You can't delete Author because
total ",ct," book exist in table book159. First delete all
the books written by him");

```



```
select str as "ERROR";  
else  
delete from author159 where authid=id;  
end if;  
end#
```

q6) write a stored procedure to delete the book using authid.

```
create procedure delbook159(in id int)  
begin  
declare bid int;  
declare i int;  
set i=(select count(*) from wby159 where authid=id);  
myloop:loop  
if i>0 then  
set i=i-1;  
set bid=(select bookid from wby159 where authid=id  
limit i,1);  
delete from book159 where bookid=bid;  
iterate myloop;  
else  
leave myloop;  
end if;  
end loop myloop;  
end#
```

```
mysql>
mysql>
mysql> create procedure delauthor159(in id int)
-> begin
-> declare ct int;
-> declare str varchar(100) default "";
-> set ct=(select count(*) from why159 where authid=id);
-> if ct>0 then
-> set str=concat(str,"You can't delete Author because total ",ct," book exist in table book159. First delete all the books written by him");
-> select str as "ERROR";
-> else
-> delete from author159 where authid=id;
-> end if;
-> end#
Query OK, 0 rows affected (0.00 sec)

mysql> create procedure delbook159(in id int)
-> begin
-> declare bid int;
-> declare i int;
-> set i=(select count(*) from why159 where authid=id);
-> myloop:loop
-> if i>0 then
-> set i=i-1;
-> set bid=(select bookid from why159 where authid=id limit i,1);
-> delete from book159 where bookid=bid;
-> iterate myloop;
-> else
-> leave myloop;
-> end if;
-> end loop myloop;
-> end#
Query OK, 0 rows affected (0.06 sec)

mysql> _
```