

Name:

Class:B.Sc(IT) Sem-1 Div-A

Sub:DBMS

Assignment-4 aim:Sql Statement With pk, fk and check Constraints and update, delete Statement

create table IT_Book

(

Book_Code varchar2(3) primary key,

Book_title varchar2(20),

Book_Price number(10,2) not null,

Publisher varchar2(20),

Edition varchar2(10) default 'Second'

);

create table IT_Author

(

Author_ID varchar2(3) primary key,

Author_Name varchar2(20) not null,

Book_ID varchar2(3),

foreign key (Book_ID) references IT_Book(Book_Code)

);

1. add a new column on number of pages in book table with number data type and size is 3

alter table IT_Book

add Pages number(3);

2. add a constraint as 'number of pages' is more than 300 pages.

alter table IT_Book

modify Pages number(3) check(Pages>=300);

3.changethesizeofauthernameasvarchar2andsizeis50.

alter table IT_Author

modify Author_Name varchar2(50);

4.deletetheeditionfieldfromauthortale.

alter table IT_Book

drop column Edition;

5.insertatleast5recordsofbooktableand10recordsinauthor
table.[kindlyinsertrecordsasaauthorhavemanybooksinauthor
table]

insert into IT_Book

values('B01','DBMS',500,'PBP',500);

insert into IT_Book

values('B02','SPM',750,'PBP',650);

insert into IT_Book

values('B03','COSD',200,'IBM',950);

insert into IT_Book

values('B04','JAVA',600,'VIKASH',960);

insert into IT_Book

values('B05','SQL',700,'VIKASH',850);

insert into IT_Author

values('A01','Aarya','B01');

insert into IT_Author

values('A02','Ram','B05');

insert into IT_Author

values('A03','Shyam','B05');

insert into IT_Author

values('A04','Shrey','B01');

insert into IT_Author

```
values('A05','Kinjal','B04');
```

```
insert into IT_Author
```

```
values('A06','Daya','B02');
```

```
insert into IT_Author
```

```
values('A07','John','B04');
```

```
insert into IT_Author
```

```
values('A08','Verma','B02');
```

```
insert into IT_Author
```

```
values('A09','Rahul','B03');
```

```
insert into IT_Author
```

```
values('A10','Roy','B05');
```

6.retrieve all the records of book table.

```
select * from IT_Book
```

BOOK_CODE	BOOK_TITLE	BOOK_PRICE	PUBLISHER	PAGES
B01	DBMS	500	PBP	500
B02	SPM	750	PBP	650
B03	COSD	200	IBM	950
B04	JAVA	850	VIKASH	960
B05	SQL	850	VIKASH	850

7.retrieve all the records of author table.

```
select * from IT_Author
```

AUTHOR_ID	AUTHOR_NAME	BOOK_ID
A06	Daya	B02
A01	Aarya	B01
A02	Ram	B05

A03	Shyam	B05
A04	Shrey	B01
A05	Kinjal	B04
A07	John	B04
A08	Verma	B02
A09	Rahul	B03
A10	Roy	B05

8. retrieve book code and author id of those book whose author code is 'a o 1' to 'a 0 4'

```
select Book_ID, Author_ID
from IT_Author
where Author_ID between 'A01' and 'A04'
```

BOOK_ID	AUTHOR_ID
B01	A01
B05	A02
B05	A03
B01	A04

9. retrieve author id and author name whose author name second character is 'a' character.

```
select Author_ID, Author_Name
from IT_Author
where Author_Name
like '_a%';
```

AUTHOR_ID	AUTHOR_NAME
A06	Daya

A01	Aarya
A02	Ram
A09	Rahul

10. update the price as 850 of those book whose publisher is 'vika sh' and number of pages more than 600.

```
update IT_Book
```

```
set Book_Price='850'
```

```
where Publisher='VIKASH' and Pages>600
```

11. delete those records of author whose author code is 'a 0 2'.

```
delete from IT_Author
```

```
where Author_ID='A02'
```