

Assignment-3

Assignment 3: Write SQL statements to CREATE a new database and tables that reflect the library schema you designed earlier. Use ALTER statements to modify the table structures and DROP statements to remove a redundant table.

Create table Bookdetail

```
(  
books_id int primary key,  
title varchar2(30) not null,  
author varchar2(30),  
genre varchar2(50),  
publication_year int,  
isbn varchar2(13) unique  
);  
desc Bookdetail;
```

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```
Create table Bookdetail  
(  
books_id int primary key,  
title varchar2(30) not null,  
author varchar2(30),  
genre varchar2(50),  
publication_year int,  
isbn varchar2(13) unique  
);  
  
desc Bookdetail;  
  
Create table Authors  
(  
author_id int primary key,
```

Results Explain Describe Saved SQL History

Object Type TABLE Object BOOKDETAIL

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
BOOKDETAIL	BOOKS_ID	Number	-	-	0	1	-	-	-
	TITLE	Varchar2	30	-	-	-	-	-	-
	AUTHOR	Varchar2	30	-	-	-	✓	-	-
	GENRE	Varchar2	50	-	-	-	✓	-	-
	PUBLICATION_YEAR	Number	-	-	0	-	✓	-	-
	ISBN	Varchar2	13	-	-	-	✓	-	-

1 - 6

```

Create table authorss
(
author_id int primary key,
name varchar2(20) not null,
birth_year int
);

```

```

desc authorss;

```

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```

Create table authorss
(
author_id int primary key,
name varchar2(20) not null,
birth_year int
);

desc authorss;

Create table Members
(
id int primary key,
name varchar2(20) not null,
email varchar(20),

```

Results Explain Describe Saved SQL History

Object Type TABLE Object AUTHORSS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AUTHORSS	AUTHOR_ID	Number	-	-	0	1	-	-	-
	NAME	Varchar2	20	-	-	-	-	-	-
	BIRTH_YEAR	Number	-	-	0	-	✓	-	-

1 - 3

```

Create table memberOfstud
(
id int primary key,
name varchar2(20) not null,
email varchar(20),
phone varchar(15),
address varchar(30)
);
desc memberOfstud;

```

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Home > SQL > SQL Commands

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```

desc authorss;

Create table memberOfstud
(
id int primary key,
name varchar2(20) not null,
email varchar(20),
phone varchar(15),
address varchar(30)
);
desc memberOfstud;
Create table borrowings

```

Results Explain Describe Saved SQL History

Object Type TABLE Object MEMBEROFSTUD

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
MEMBEROFSTUD	ID	Number	-	-	0	1	-	-	-
	NAME	Varchar2	20	-	-	-	-	-	-
	EMAIL	Varchar2	20	-	-	-	✓	-	-
	PHONE	Varchar2	15	-	-	-	✓	-	-
	ADDRESS	Varchar2	30	-	-	-	✓	-	-

1 - 5

```

Create table borrowingstud
(
borrowing_id int primary key,
books_id int not null,
id int not null,
Borrow_Date Date,
Return_Date Date,
constraints fkBookdetail foreign key (books_id) references Bookdetail(books_id),
constraints fkmemberOfstud foreign key (id) references memberOfstud(id),
check (Return_Date >= Borrow_Date)
);
desc borrowingstud;

```

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Home > SQL > SQL Commands

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```

desc memberOfstud;

Create table borrowingstud
(
borrowing_id int primary key,
books_id int not null,
id int not null,
Borrow_Date Date,
Return_Date Date,
constraints fkBookdetail foreign key (books_id) references Bookdetail(books_id),
constraints fkmemberOfstud foreign key (id) references memberOfstud(id),
check (Return_Date >= Borrow_Date)
);
desc borrowingstud;

```

Results Explain Describe Saved SQL History

Object Type TABLE Object BORROWINGSTUD

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
BORROWINGSTUD	BORROWING_ID	Number	-	-	0	1	-	-	-
	BOOKS_ID	Number	-	-	0	-	-	-	-
	ID	Number	-	-	0	-	-	-	-
	BORROW_DATE	Date	7	-	-	-	✓	-	-
	RETURN_DATE	Date	7	-	-	-	✓	-	-

1 - 5

Language: en-us

```
alter table Bookdetail
add author_id int;

drop table authorss;
```

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Home > SQL > SQL Commands

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```
id int not null,
Borrow_Date Date,
Return_Date Date,
constraints fkBookdetail foreign key (books_id) references Bookdetail(books_id),
constraints fkmemberofstud foreign key (id) references memberofstud(id),
check (Return_Date >= Borrow_Date)
);
desc borrowingstud;

alter table Bookdetail
add author_id int;

drop table authorss;
```

Results Explain Describe Saved SQL History

Table dropped.

0.06 seconds