

CA3 Software Engineering and Testing

Members:

B00148508 Panitan Sripoom

B00146242 Daniel Ziu

B00140975 Adam Muhammed

March 2023

Database SQL Screenshots:

We create tables with unique identifier (Primary KEY) along with related attributes and its specify type of data. We put NOT NULL after to indicate a required data.

```
-- Create User table
CREATE TABLE User (
    userID INT(11) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
    roleID INT(11) ,
    authorID INT(11) ,
    empID INT(11) ,
    username VARCHAR(50) NOT NULL,
    password VARCHAR(50) NOT NULL,
    image VARCHAR(50) ,
    firstname VARCHAR(50) NOT NULL,
    lastname VARCHAR(50) NOT NULL,
    email VARCHAR(50) NOT NULL ,
    phoneNum VARCHAR(20) NOT NULL ,
    /*dob VARCHAR(20) NOT NULL ,*/
    verify_status BOOL ,
    link VARCHAR(70)
);

-- Create role table
CREATE TABLE Role (
    roleID INT(11) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
    role_name VARCHAR(20)
);

-- Create FavBook table
CREATE TABLE FavBook (
    userID INT(11) PRIMARY KEY NOT NULL,
    isbn INT(20) NOT NULL
);

-- Create author_action table
CREATE TABLE Author_Action (
    postID INT(11) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
    authorID INT (11) ,
    postTypeID INT (11) ,
    heading VARCHAR(80) ,
    description VARCHAR(100) ,
```

```

-- Create author_action table
CREATE TABLE Author_Action (
    postID INT(11) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
    authorID INT (11) ,
    postTypeID INT (11) ,
    heading VARCHAR(80) ,
    description VARCHAR(100) ,
    date VARCHAR(100) ,
    time VARCHAR(100) ,
    place VARCHAR(40) ,
    answer1 VARCHAR(40) ,
    answer2 VARCHAR(40) ,
    answer3 VARCHAR(40)
);

-- Create Book Table
CREATE TABLE Book (
    isbn INT(20) PRIMARY KEY NOT NULL,
    postID INT(11) ,
    authorID INT(11) ,
    genreID INT(11) NOT NULL,
    bookName VARCHAR(50) NOT NULL ,
    description VARCHAR(255) NOT NULL ,
    image VARCHAR(50) NOT NULL ,
    rating INT(10) NOT NULL
);

-- create review Table
CREATE TABLE Review (
    reviewID INT(10) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
    userID INT(11) ,
    date VARCHAR(50) NOT NULL ,
    comment VARCHAR(255) NOT NULL
);

```

```
-- create postType Table
CREATE TABLE postType (
    postTypeID INT(10) PRIMARY KEY,
    postType_name VARCHAR(50)
);

-- create genre Table
CREATE TABLE Genre (
    genreID INT(5) PRIMARY KEY,
    genre_name VARCHAR(50)
);

-- create publish Table
CREATE TABLE Publish (
    publishID INT(5) PRIMARY KEY,
    authorID INT(11)
);
```

Screen Shot of DB via PHPmyAdmin.

The screenshot shows the PHPmyAdmin interface for a MySQL database named 'authorconnect_db1'. The left sidebar displays the database structure, including tables like 'author_action', 'book', 'favbook', 'genre', 'posttype', 'publish', 'review', 'role', and 'user'. The main panel shows a list of tables with their respective actions (Browse, Structure, Search, Insert, Empty, Drop). Below the table list, there is a 'Create new table' section with fields for 'Table name' and 'Number of columns' (set to 4), and a 'Create' button.

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> author_action		0	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
<input type="checkbox"/> book		2	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
<input type="checkbox"/> favbook		0	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
<input type="checkbox"/> genre		2	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
<input type="checkbox"/> posttype		3	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
<input type="checkbox"/> publish		0	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
<input type="checkbox"/> review		0	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
<input type="checkbox"/> role		3	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
<input type="checkbox"/> user		3	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
9 tables	Sum	13	InnoDB	utf8mb4_0900_ai_ci	144.0 KiB	0 B

AuthorAction:

The screenshot shows the PHPmyAdmin interface with a query executed on the 'author_action' table. The query is `SELECT * FROM `author_action``. The results show an empty set, indicating no data was returned. The table structure is visible on the left sidebar, and the query results are displayed in the main panel.

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0010 seconds.)

```
SELECT * FROM `author_action`
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

postId	authorID	postTypeID	heading	description	date	time	place	answer1	answer2	answer3
--------	----------	------------	---------	-------------	------	------	-------	---------	---------	---------

Query results operations

[Create view](#)

Book:

✓ Showing rows 0 - 1 (2 total, Query took 0.0010 seconds.)

`SELECT * FROM `book``

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Sort by key: None

Extra options

↩ ↪

isbnpostIDauthorIDgenreIDbookNamedescriptionimage rating

☐ [Edit](#) [Copy](#) [Delete](#)

1238975212Haunted HouseThe Story about 100 years old house.

☐ [Edit](#) [Copy](#) [Delete](#)

172947492311ITThe story about demon in crown form4

⬆ ☐ Check all

With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

☐ Show all | Number of rows: 25 | Filter rows: Sort by key: None

Query results operations

[Print](#) [Copy to clipboard](#) [Export](#) [Display chart](#) [Create view](#)

favBook:

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006 seconds.)

`SELECT * FROM `favbook``

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

userID isbn

Query results operations

[Create view](#)

genre:

✓ Showing rows 0 - 1 (2 total, Query took 0.0004 seconds.)

`SELECT * FROM `genre``

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Sort by key: None

Extra options

← T →

genreIDgenre_name

☐ Edit Copy Delete 1 Horror

☐ Edit Copy Delete 2 Comedy

↑

☐ Check all

With selected:

Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

postType:

✓ Showing rows 0 - 2 (3 total, Query took 0.0006 seconds.)

`SELECT * FROM `posttype``

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Sort by key: None

Extra options

← T →

postTypeIDpostType_name

☐ Edit Copy Delete 1 Event

☐ Edit Copy Delete 2 Survey

☐ Edit Copy Delete 3 Announcement

↑

☐ Check all

With selected:

Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

publish:


✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006 seconds.)

```
SELECT * FROM `publish`
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

publishID	authorID
-----------	----------

Query results operations

 [Create view](#)

review:


✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0016 seconds.)

```
SELECT * FROM `review`
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

reviewID	userID	date	comment
----------	--------	------	---------

Query results operations

 [Create view](#)

role:

Showing rows 0 - 2 (3 total, Query took 0.0012 seconds.)

SELECT * FROM `role`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Extra options

roleID

role_name

Edit

Copy

Delete

1

Reader

Edit

Copy

Delete

2

Author

Edit

Copy

Delete

3

Admin

Check all

With selected:

Edit

Copy

Delete

Export

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Query results operations

Print

Copy to clipboard

Export

Display chart

Create view

user:

Showing rows 0 - 2 (3 total, Query took 0.0123 seconds.)

SELECT * FROM `user`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Extra options

userID

roleID

authorID

emplID

username

password

image

firstname

lastname

email

phoneNum

Edit

Copy

Delete

1

NULL

NULL

NULL

pan123

panit12345

NULL

Panitan

Sripoom

panitan@hotmail.com

0866666666

Edit

Copy

Delete

2

NULL

NULL

NULL

tutu

sdafhg234

NULL

tiretn

aognweg

ruta@hotmail.com

08555425

Edit

Copy

Delete

3

NULL

NULL

NULL

asdkljf

aklsjdfh

NULL

aksjdhf

:aklsjdfhg

aklsdj@hotmail.com

09287345

Check all

With selected:

Edit

Copy

Delete

Export