

**Course Name:** Database Management Systems- II

**Course Code:** CPS 562 01

**FINAL PROJECT**

**ON**

**FRIENDBOOK**

*Submitted by:*

**CHANDRA SEKHAR YELLAPU (1016356770)**

**PUNNA YASHWANTH KUMAR (1016238420)**

*Submitted to:*

**Dr.** [**BUCKLEY,**](http://www.udayton.edu/directory/artssciences/computerscience/courte_dale_e.php) **JAMES**

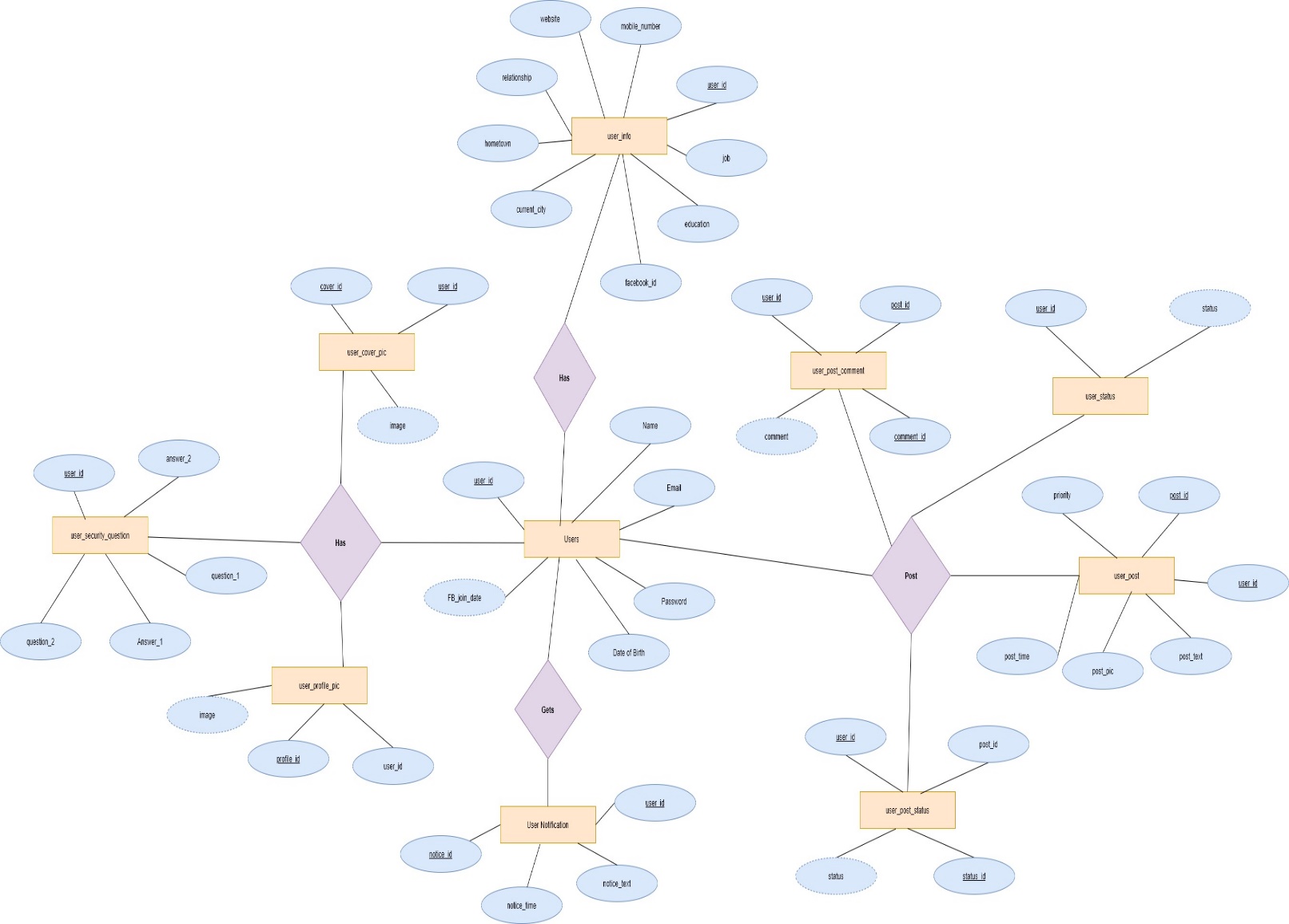
Associate Professor; Director of Graduate Program in Computer Science

University of Dayton

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**SOFTWARE REQUIREMENTS:**

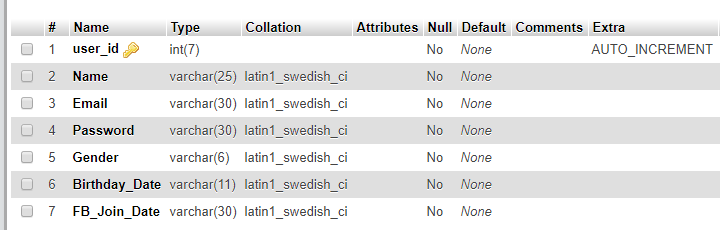
**ER DIAGRAM**

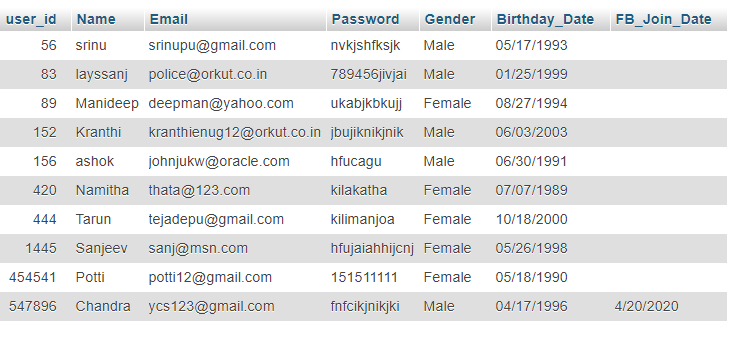


**DATABASE INSTANCE:**

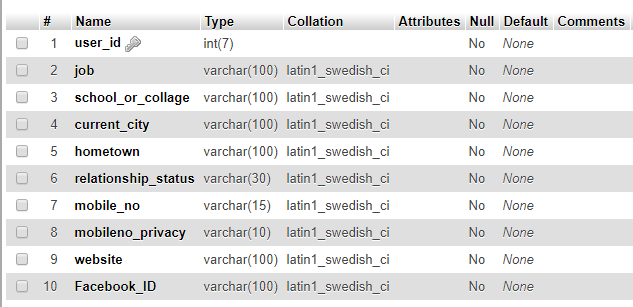
A database **instance** or an ‘instance’ is made up of the background processes needed by the [database software](http://ecomputernotes.com/sql/sql-tutorials/whatissql). These processes usually include a process monitor, session monitor, lock monitor, etc.

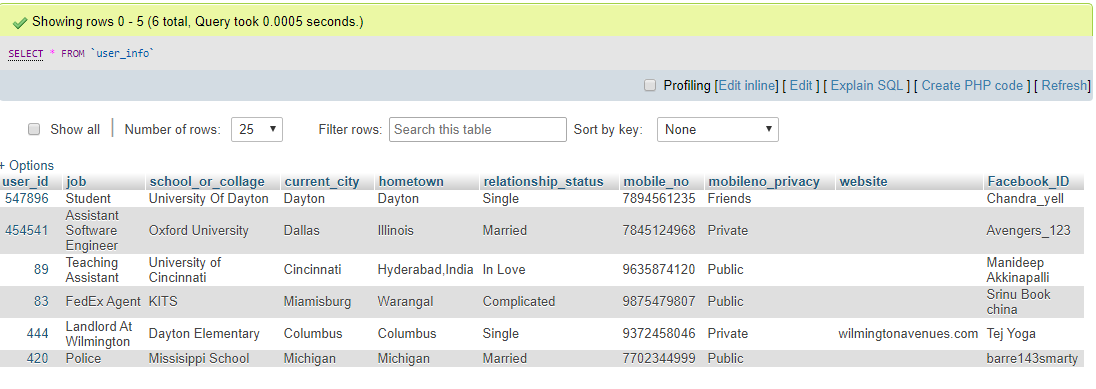
**User Instance:**



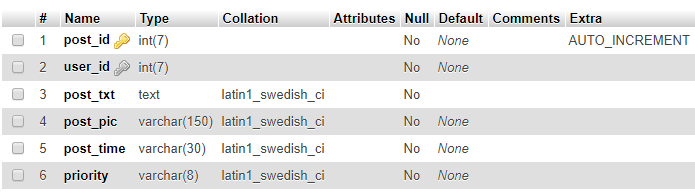


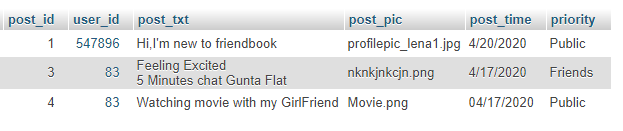
**User Info Instance:**



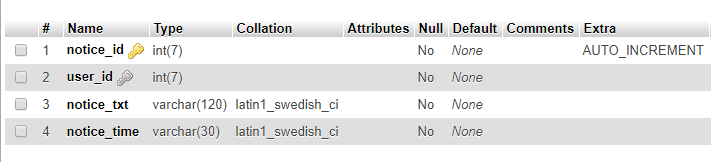


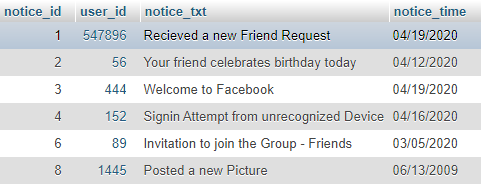
**User Post Instance:**





**User Notification Instance:**

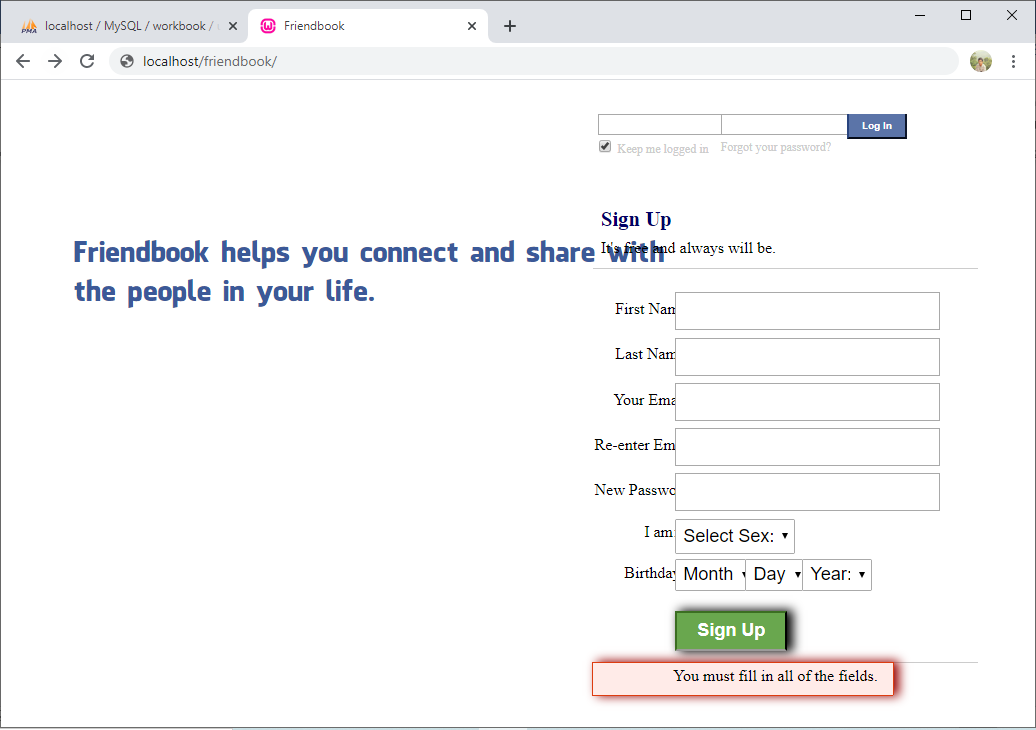




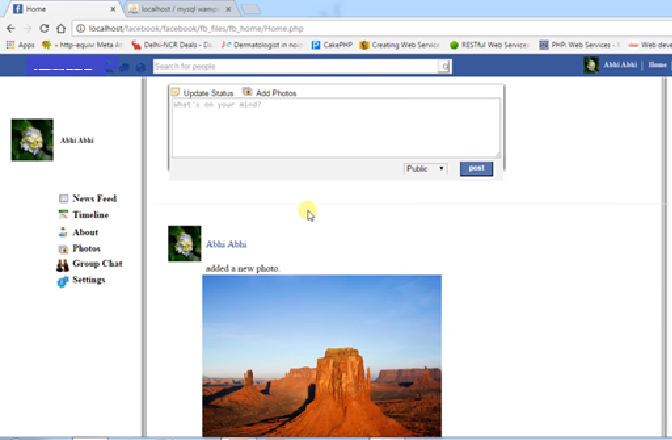
**Web Interface**

**Login Page**

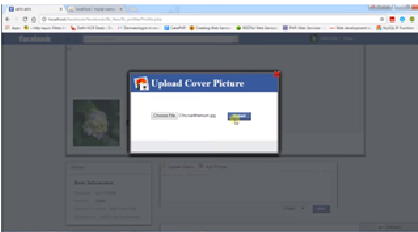
User enters the Username and Password if he already has an account with Facebook and can login to his with his credentials



**Post Status:**

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**Add Cover Picture:**



**Queries:**

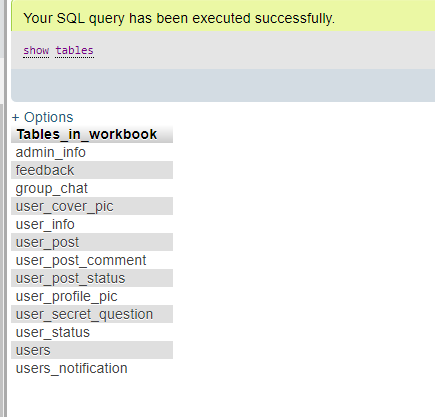
1**.**Display the tables created in the Database

Database **workbook** and its tables

**SQL Query:**

show tables

**Query Result:**



2.Create Table with set of column names and type of data and size of it includes if any primary or foreign keys

**SQL Query:**

CREATE TABLE `users\_notification` (

`notification\_id` int(7) NOT NULL AUTO\_INCREMENT,

`user\_id` int(7) NOT NULL,

`notification\_txt` varchar(120) NOT NULL,

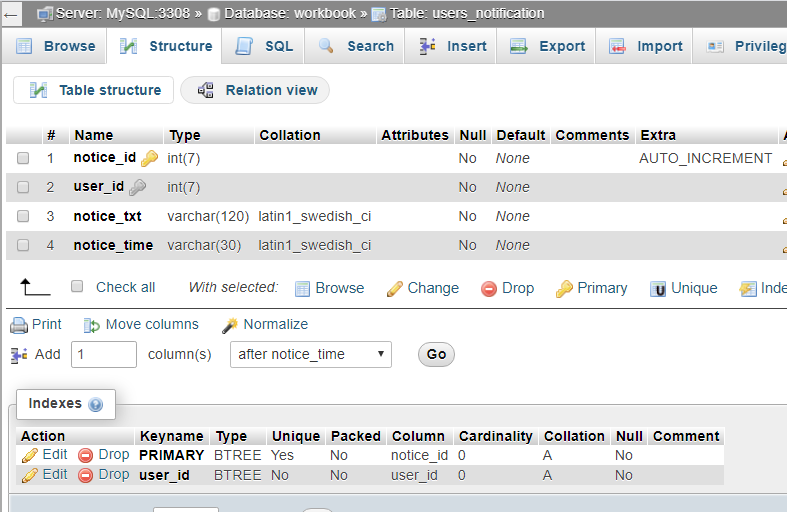
`notification\_time` varchar(30) NOT NULL,

PRIMARY KEY (`notification\_id`),

KEY `user\_id` (`user\_id`)

)

**Query Result:**



3.List the users who are MALE

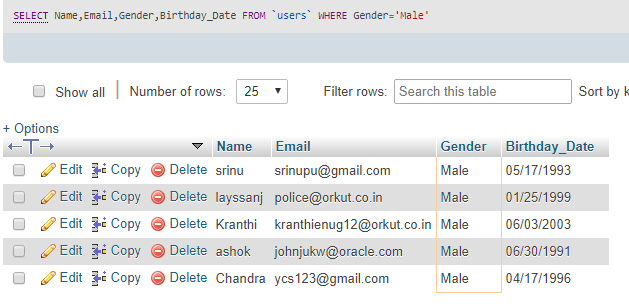
**SQL Query:**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) Name,Email,Gender,Birthday\_Date

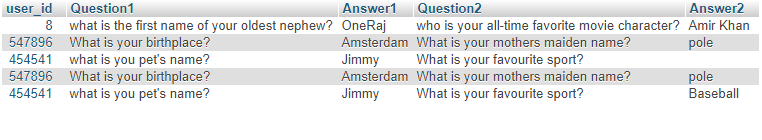
FROM `users`

WHERE Gender='Male';

**Query Result:**



4. Delete Duplicate rows from the table user\_security\_question



**SQL Query:**

DELETE from user\_secret\_question

WHERE Answer2 not in

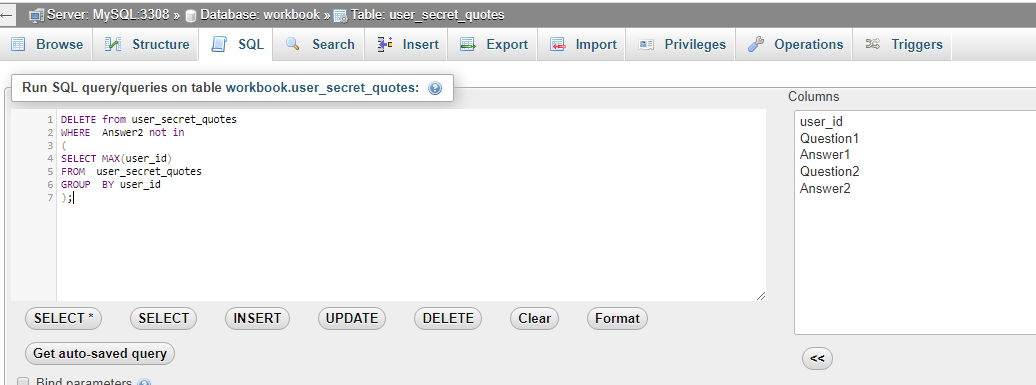
(

SELECT MAX(user\_id)

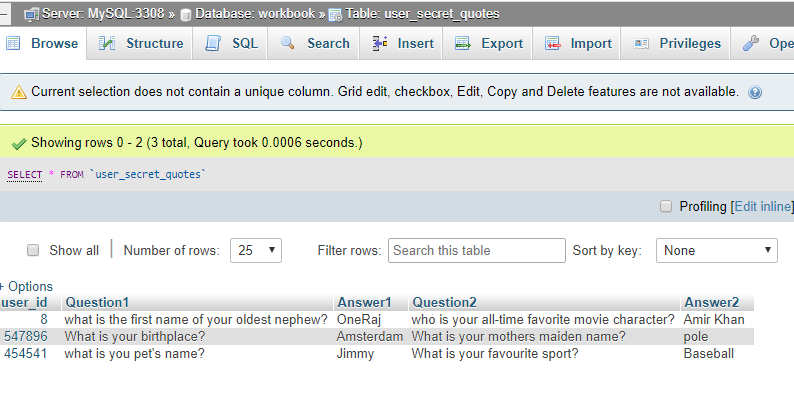
FROM user\_secret\_question

GROUP BY user\_id

);



**Query Result:**



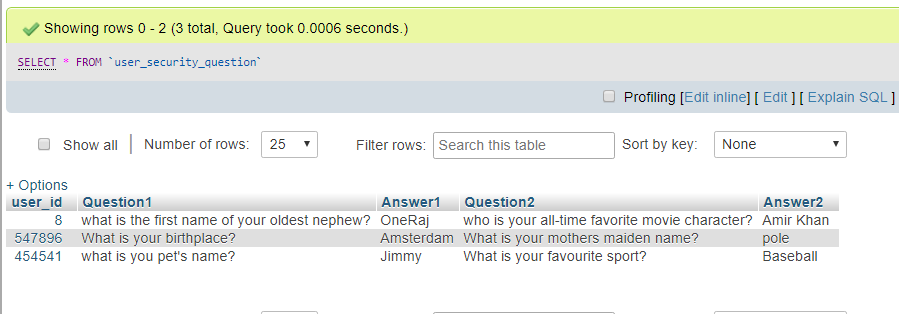
5. Insert Data into the tables

**SQL Query:**

INSERT INTO `security\_question` (`user\_id`, `Question1`, `Answer1`, `Question2`, `Answer2`) VALUES

(8, 'what is the first name of your oldest nephew?', 'OneRaj', 'who is your all-time favorite movie character?', 'Amir Khan');

**Query Result:**

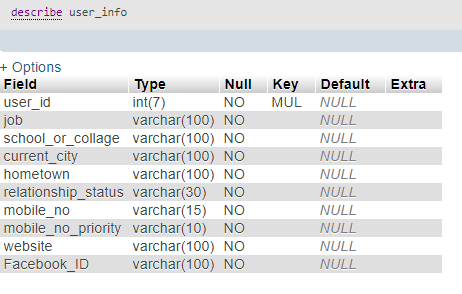


6. Display the structure of user info

**SQL Query:**

describe user\_info;

**Query Result:**



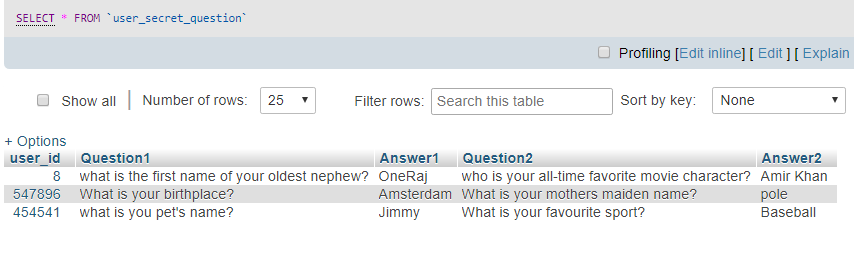
7. Rename table in workbook database

**SQL Query:**

[RENAME](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/rename-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/rename-table.html) `workbook`.`user\_secret\_questions` TO `workbook`

.`user\_secret\_question`;

**Query Result:**



8. View the notifications for the particular user

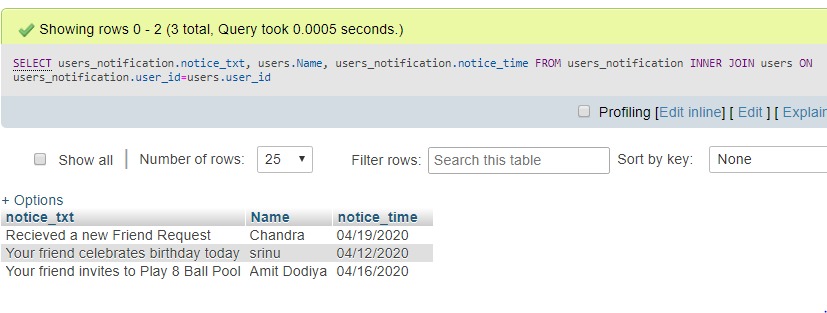
**SQL Query:**

SELECT users\_notification.notice\_txt, users.Name, users\_notification.notice\_time

FROM users\_notification

INNER JOIN users ON users\_notification.user\_id=users.user\_id;

**Query Result:**



9. Display the posts made by the user on one’s Own Profile

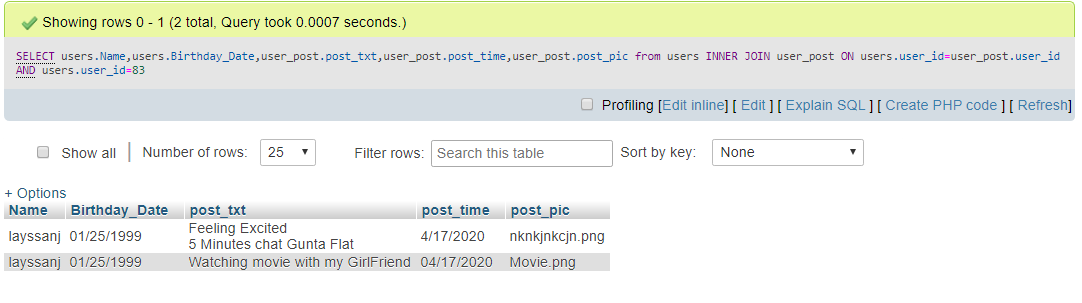
**SQL Query:**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) users.Name,user\_post.post\_txt,user\_post.post\_time,user\_post.post\_pic

from users INNER JOIN user\_post

ON users.user\_id=user\_post.user\_id [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) users.user\_id=83

**Query Result:**



10.List the comments made on the posts

**SQL Query:**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) U.Name, U.Gender,P.post\_txt,P.post\_pic,C.comment

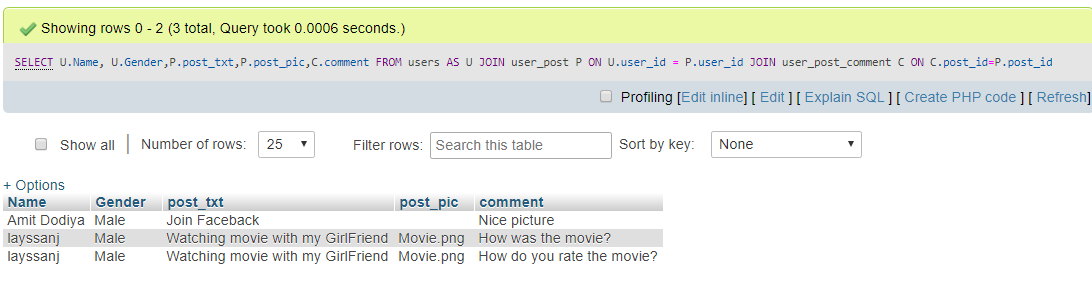
FROM users AS U

JOIN user\_post P

ON U.user\_id = P.user\_id JOIN user\_post\_comment C

ON C.post\_id=P.post\_id;

**Query Result:**



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**OBSERVATIONS**

* This project helps one to learn an efficient database design and its implementation in the real world.
* This implementation helps in better insight of the course. The initial journey started by database design.
* Conversion of bare data into a structural form i.e. tabular form so that it could be used for storage and retrieval of large amount of data by storing in tables is explained.
* Complex things were designing relations, attributes and associations between these relations, identification of keys and constraints.
* Challenging part was prevention of redundancy.
* JavaScript to connect the front-end PHP, HTML and its application using CSS framework are well understood.
* This project is helpful in learning the creation of ones own well-structured database and its implementation.