

Course: IT202-010-S2025

Assignment: IT202 Module 4 SQL Challenge

Student: Justin C. (jjc88)

Status: Submitted | Worksheet Progress: 100.00%

Potential Grade: 10.00/10.00 (100.00%)

Received Grade: 0.00/10.00 (0.00%)

Grading Link: <https://learn.ethereallab.app/assignment/v3/IT202-010-S2025/it202-module-4-sql-challenge/grading/jjc88>

Instructions

1. Ensure you read all instructions and objectives before starting.
2. Create a new branch from dev called M4-Homework
 1. `git checkout dev` (ensure proper starting branch)
 2. `git pull origin dev` (ensure history is up to date)
 3. `git checkout -b M4-Homework` (create and switch to branch)
3. Copy the template code from here: [GitHub Repository - M4 Homework](#)
 - Put all into an M4 folder inside your `public_html`
 - Expected files
 - ☐ `sql/000_create_table_todos.sql`
 - ☐ `sql/init_db.php`
 - ☐ `todos/create.php`
 - ☐ `todos/pending.php`
 - ☐ `todos/completed.php`
 - ☐ `nav.php`
 - Immediately record to history
 - ☐ `git add public_html`
 - ☐ `git commit -m "adding M4 HW baseline files"`
 - ☐ `git push origin M4-Homework`
 - ☐ Create a Pull Request from M4-Homework to dev and keep it open
4. Fill out the below worksheet
 - Each Problem requires the following as you work
 - ☐ Ensure there's a comment with your UCID, date, and brief summary of how the problem was solved
 - ☐ Update ucid in `nav.php` where noted
 - ☐ Code solution (add/commit periodically as needed) (refer to comments in the create, pending, completed files)
5. Once finished, click "Submit and Export"
6. Locally add the generated PDF to a folder of your choosing inside your repository folder and move it to Github
 1. `git add .`
 2. `git commit -m "adding PDF"`
 3. `git push origin M4-Homework`
 4. On Github merge the pull request from M4-Homework to dev
 5. On Github create a pull request from dev to prod and immediately merge. (This will trigger the prod deploy to make the heroku prod links work)
7. Upload the same PDF to Canvas

7. Upload the same folder to canvas
8. Sync Local
 1. git checkout dev
 2. git pull origin dev

Section #1: (1 pt.) Prep

Details:

Once the files are copied in, run your local PHP server and visit /M4/sql/init_db.php in the browser to trigger the table generation.

Task #1 (0.50 pts.) - Show the output of the init_db.php tool

Weight: 50%

Objective: Show the output of the `init_db.php` tool

Details:

The output should note either successfully executed or blocked (this is ok)

Image Prompt



Output `init_dp.php`



Saved: 3/11/2025 3:11:53 PM

Task #2 (0.50 pts.) - Show the project view of your editor to show a

Weight: 50%

Objective: Show the project view of your editor to show all files are present

Image Prompt



editor screenshot



Saved: 3/12/2025 4:57:27 PM

Section #2: (3 pts.) Create Page

Task #1 (0.75 pts.) - HTML Form Challenge

Combo Task:

Weight: 25%

Objective: HTML Form Challenge

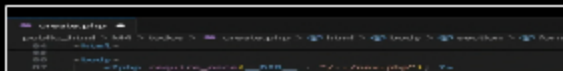
Item:#1

Weight: 50%

Details:

Show the code snippet related to the completed HTML form

Image Prompt



HTML CODE



 Saved: 3/12/2025 5:02:01 PM

Item:#3

Weight: 50%

Details:

Items

- Note the field names and why the specific types were chosen
- Also note how you made "self" the default for the assigned input

≡ Text Prompt

Your Response:

For task, text was chosen as the task will be a string, due date will be a date type insuring only a date format, and assigned will be text as that is a string input. Assigned was able to be defaulted to self by assigning the value to "self" making the field input defaulted to self.



 Saved: 3/12/2025 5:02:01 PM

Task #2 (0.75 pts.) - Form Submission PHP Validations

Combo Task:

Weight: 25%

Objective: Form Submission PHP Validations

Item:#1

Details:

- Validate the incoming data for correct format based on the SQL table definition.
- When not valid, provide a user-friendly message of what specifically was wrong and set `$is_valid` to false
- Assigned should check for "self" if a valid format/value isn't provided
- Include screenshot(s) from Heroku Dev demonstrating each validation (ensure URL is visible)

Image Prompt

[illegible]

code



The screenshot shows a web browser window with a single tab titled "To Do". The address bar shows the URL "http://localhost:3000/". The page content is a simple form titled "Create To Do". The form has a text input field with the value "To Do", a dropdown menu with "To Do" selected, and a "Save To Do" button.

task

A screenshot of a web browser window displaying a "Create ToDo" form. The browser's address bar shows a URL starting with "http://localhost:". The page title is "Create ToDo". Below the title, there are four input fields labeled "Name", "Date", "Priority", and "Color", each followed by a small downward arrow indicating a dropdown menu. At the bottom of the form is a button labeled "Save it". The browser's status bar at the very bottom shows "1 tab - localhost:8080".

assigned validation



date validation



Saved: 3/12/2025 7:19:16 PM

Item:#3

Weight: 50%

Details:

Briefly explain your validation logic.

≡ Text Prompt

Your Response:

Task #3 (0.75 pts.) - Show the code snippet related to the INSERT c

Combo Task:

Weight: 25%

Objective: Show the code snippet related to the INSERT query

Item:#1

Weight: 50%

Details:

Design a query to insert the incoming data to the proper columns. Ensure valid and proper PDO named placeholders are used. <https://phpdelusions.net/pdo>

≡ Image Prompt

query code



Saved: 3/12/2025 5:08:07 PM

Item:#3

Weight: 50%

Details:

Briefly describe **how** the query works in plain words.

≡ Text Prompt

Your Response:

Inserts data to the M4_Todo sql table with the appropriate name and values. Parmis also links the values to the associate variable.



Saved: 3/12/2025 5:08:07 PM

Task #4 (+ 0.94 pts.) - Extra Credit: Handle Unique Constraint Errors

Combo Task:

Weight: 31.25%

Objective: Extra Credit: Handle Unique Constraint Errors

Item:#1

Details:

Show the code related to handling the unique constraint errors and the user-friendly message

≡ Image Prompt



Missing Caption



Not saved yet

Item:#3

Details:

Briefly explain `how` your code solves the challenge.

≡ Text Prompt

Your Response:

Missing Response



Not saved yet

Task #5 (0.75 pts.) - Create Page URLs

Weight: 25%

Objective: *Create Page URLs*

Details:

- Direct link to the file in the homework related branch from Github (should end in `.php`)
- Direct link to the file on Heroku Prod (Just grab the base prod url and manually enter the path to the file)

🔗 Url Prompt

URL #1

<https://jjc88-it202-010-prod-b44e1de4d69c.herokuapp.com/M4/todos/create.php>



URL

<https://jjc88-it202-010-prod-b44e1de4c>



URL #2



URL

<https://github.com/juiceicease/jjc88-it2>





Saved: 3/12/2025 8:16:01 PM

Section #3: (3 pts.) Pending Page

Task #1 (1 pt.) - Fetching Todos

Combo Task:

Weight: 33.33%

Objective: *Fetching Todos*

Item:#1

Weight: 50%

Details:

- Refer to the HTML table below and build a query that'll select the columns in the same order as the table from the Todo table
- Cross-reference the HTML table columns with what'd most plausibly match the SQL table aside from the notes below
- For the Status part, you'll need to calculate the "days_offset" from the due date, ensure the virtual column matches "days_offset"
- For Actions, this isn't part of the query and there's nothing special to select for it
- Filter the results where the todo item is NOT completed and order the results by those due the soonest
- No limit is required
- Include screenshot(s) from Heroku Dev demonstrating 5 different records (ensure URL is visible)

Image Prompt



```
FOR ALL TASKS, FIRST I WILL SORT BY THE DUE DATE. THERE'S NOTHING SPECIAL TO SORT BY ID,
TASK OR DUE DATE. THE TASK NAME IS ALL I NEED TO GET THE RESULTS BY TASK AND THE DUE DATE.
THE TASK IS COMPLETE.

// I AM USING SELECT TO GET THE DATA. I AM USING ORDER BY ASC TO GET THE RESULTS BY TASK AND THE DUE DATE.
// I AM USING DATEDIFF TO GET THE DATE DIFFERENCE AND ASSIGNING IT TO DAYS_OFFSET FROM THE TABLE.
// I AM USING ORDER BY ASC TO GET THE RESULTS BY TASK AND THE DUE DATE.

Query: SELECT ID, TASK, DUE, DATEDIFF(DUE, CURRENT_TIMESTAMP, DAY) AS DAYS_OFFSET, ASSIGNED FROM TASKS WHERE IS_COMPLETE = 0 ORDER BY DUE ASC, TASK ASC;

// I AM USING ORDER BY ASC TO GET THE RESULTS BY TASK AND THE DUE DATE.
```

code



ID	Task	Due Date	Assigned	Days Offset
1	Task 1	2025-12-12	Assigned	0
2	Task 2	2025-12-13	Assigned	1
3	Task 3	2025-12-14	Assigned	2
4	Task 4	2025-12-15	Assigned	3
5	Task 5	2025-12-16	Assigned	4

Showing 5 records



 Saved: 3/12/2025 8:21:28 PM

Item:#3

Weight: 50%

Details:
Briefly describe the query works in plain words.

≡ Text Prompt

Your Response:

Using select, I am able to retrieve data from the table such as id, task and due as well as using DATEDIFF to get date difference and assigning it to days_offset from table. Using ORDER BY ASC will filter the data in an ascending order.

 Saved: 3/12/2025 8:21:28 PM

Task #2 (1 pt.) - Completing Todos

Combo Task:

Weight: 33.33%

Objective: Completing ToDos

Item:#1

Weight: 50%

Details:

- Create a query that'll update the respective ToDo marking it complete and setting the date for the completed date field as today
- Ensure the "id" is utilized using proper PDO named placeholders so that only the one item is updated
- Add an extra clause to update only if the complete field of the record is not set

Image Prompt

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

```
UPDATE todos SET is_complete = 1, completed = NOW() WHERE id = ? AND is_complete = 0
```

Item:#3

Weight: 50%

Details:

Briefly describe **how** the query works in plain words.

Text Prompt

Your Response:

using update, im able to update the table's value specifically is_complete and completed. With the condition id and is_complete= 0 to insure correct column is edited.

Saved: 3/12/2025 6:01:42 PM

Task #3 (1 pt.) - Pending Page URLs

Weight: 33.33%

Objective: Pending Page URLs

Details:

- Direct link to the file in the homework related branch from Github (should end in `.php`)
- Direct link to the file on Heroku Prod (Just grab the base prod url and manually enter the path to the file)

Url Prompt

URL #1

<https://jjc88-it202-010-prod-b44e1de4d69c.herokuapp.com/M4/todos/pending.php>



URL

<https://jjc88-it202-010-prod-b44e1de4d69c.herokuapp.com/M4/todos/pending.php>



URL #2

https://github.com/juicejoose/jjc88-it202-010/M4-Homework/public_html/M4/todos/pending.php



URL

https://github.com/juicejoose/jjc88-it202-010/M4-Homework/public_html/M4/todos/pending.php



Saved: 3/12/2025 8:22:20 PM

Section #4: (2 pts.) Completed Page

Task #1 (1 pt.) - Fetching Todos

Combo Task:

Weight: 50%

Objective: Fetching Todos

Item:#1

Weight: 50%

Details:


- Refer to the HTML table below and build a query that'll select the columns in the same order as the table from the Todo table
- Cross-reference the HTML table columns with what'd most plausibly match the SQL table aside from the notes below
- For the completed date you'll need to extract the date portion from the completed column
- For the Status part, you'll need to calculate the "days_offset" from the completed date, ensure the virtual column matches "days_offset"
- Filter the results where the todo item is completed and order the results by most recently completed and most recently due
- No limit is required
- Include screenshot(s) from Heroku Dev demonstrating 5 different records (ensure URL is visible)

Image Prompt



```
SELECT * FROM todos WHERE completed = true ORDER BY completed DESC, due_date DESC LIMIT 5;
```

code



```
SELECT * FROM todos WHERE completed = true ORDER BY completed DESC, due_date DESC LIMIT 5;
```

heroku 5 records

 Saved: 3/12/2025 8:24:26 PM

Item:#3

Weight: 50%

Details:

Details:

Briefly describe **how** the query works in plain words.

≡ Text Prompt

Your Response:

Using SELECT we are able to retrieve data from M4_Todos to make completed into correct format use DATE. DATEDIFF for completed days, taking difference from current date and the completed. Then filtering where tasks is completed then ordering the completed and due date in a descending order.



Saved: 3/12/2025 8:24:26 PM

Task #2 (1 pt.) - Completed Page URLs

Weight: 50%

Objective: Completed Page URLs

Details:

- Direct link to the file in the homework related branch from Github (should end in **.php**)
- Direct link to the file on Heroku Prod (Just grab the base prod url and manually enter the path to the file)

🔗 Url Prompt

URL #1

https://github.com/juicejooose/jjc88-it202-010/M4-Homework/public_html/M4/todos/completed.php



URL

<https://github.com/juicejooose/jjc88-it2>



URL #2

<https://jjc88-it202-010-prod-b44e1de4d69c.herokuapp.com/M4/todos/completed.php>



URL

<https://jjc88-it202-010-prod-b44e1de4c>



Saved: 3/12/2025 8:26:29 PM

Section #5: (1 pt.) Misc

Task #1 (0.33 pts.) - Github Details

Combo Task:

Weight: 33.33%

Objective: *Github Details*

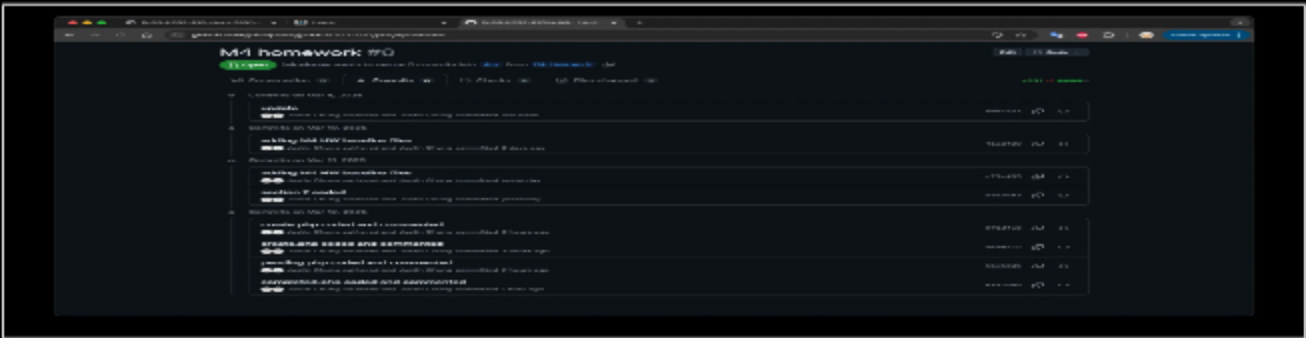
Item:#1

Weight: 60%

Details:

From the Commits tab of the Pull Request screenshot the commit history

Image Prompt



github commit



 Saved: 3/12/2025 8:29:22 PM

Item:#2

Weight: 40%

Details:

Include the link to the Pull Request (should end in `/pull/#`)

Url Prompt

URL #1

<https://github.com/juicej00se/jjc88-it202a01108>



URL

<https://github.com/juicej00se/jjc88>

Task #2 (0.33 pts.) - WakaTime - Activity

Weight: 33.33%

Objective: WakaTime - Activity

Details:

- Visit the WakaTime.com Dashboard
- Click **Projects** and find your repository
- Capture the overall time at the top that includes the repository name
- Capture the individual time at the bottom that includes the file time
- Note: The duration isn't relevant for the grade and the visual graphs aren't necessary

Image Prompt

Projects - jjc88-it202-010

5 hrs 48 mins over the Last 7 Days in jjc88-it202-010 under all branches.

waketime summary

Files		Branches	
5 hrs 28 mins	public_html/M4/todos/create.php	5 hrs 28 mins	M4-Homework
1 hr 12 mins	public_html/M4/todos/pending.php	18 mins	Front-Backend Login
56 mins	public_html/M4/todos/completed.php	9 mins	Front-Helper Functions
27 mins	public_html/M4/nav.php	2% mins	Unknown
20 mins	public_html/M4/sql/000--create_table--todo.sql		
12 mins	public_html/project/logout.php		
6 mins	project/sql/001--create_table--users.sql		
5 mins	lib/user-helper.php		
3 mins	public_html/nav.php		
2 mins	lib/functions.php		
2 mins	public_html/project/login.php		
1 min	lib/user-helper.php		
1 min	public_html/project/home.php		
58 secs	public_html/project/register.php		
42 secs	lib/register.php		
24 secs	public_html/project/sql/init_db.php		
2% mins	lib/functions.php		
12 secs	public_html/M4/sql/init_db.php		
11 secs	lib/db.php		
5 secs	public_html/M4/sql/README.md		
1 sec	public_html/README.md		
0 secs	lib/README.md		

Task #3 (0.33 pts.) - Reflection

Sub-Tasks:

Task #1 (0.33 pts.) - What did you learn?

Weight: 33.33%

Objective: *What did you learn?*

Details:

Briefly answer the question (at least a few decent sentences)

Text Prompt

Your Response:

Setting up pages using php, html, and sql. A combination of everything working together to make a page with functionality. Also learning how to build queries, setting up validations as well as building using html.



Saved: 3/12/2025 8:35:40 PM

Task #2 (0.33 pts.) - What was the easiest part of the assignment?

Weight: 33.33%

Objective: *What was the easiest part of the assignment?*

Details:

Briefly answer the question (at least a few decent sentences)

Text Prompt

Your Response:

Easiest part was submitting even though my laptop is gonna explode from all the heat and lag. But I wouldn't say any easy part of the hw every part had its challenges.



Saved: 3/12/2025 8:37:01 PM

Task #3 (0.33 pts.) - What was the hardest part of the assignment?

Weight: 33.33%

Objective: *What was the hardest part of the assignment?*

Details:

Briefly answer the question (at least a few decent sentences)

≡ Text Prompt

Your Response:

I felt that the whole hw was hard but doable with looking back at material and using outside resources and research. Spending alot of time self-studying while doing the homework.



Saved: 3/12/2025 8:38:01 PM