Mini Project - 2

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| **Student Name/ID Number:** | Ida Bagus Ketut Yoghantara |
| **Unit Number and Title:** | ACWD Module 4 – Database Design & Implementation |
| **Academic Year:** | 2022 |
| **Unit Assessor:** | Arvinder Kaur |
| **Project Title:** | Implementing a Database for Community Portal |
| **Issue Date:** |  |
| **Submission Date:** | 28 July 2022 |
| **Internal Verifier Name:** |  |
| **Date:** | 27 July 2022 |

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| **Learner declaration** |
| I certify that the work submitted for this assignment is my own and research sources are fully acknowledged.  Student signature:  Date: 27 July 2022 |

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| **Purpose of this project** |
| **Purpose of this project**  To demonstrate your capabilities in the following areas:   * Ability to Implement a MySQL Database based on design created in Mini Project 1 |
| **Submission Format** |
| 1. Screen capture of Database Table structure in PhpMyAdmin 2. Queries used by Web pages in Tabular Format |
| **Project Brief & Guidance** |
| **Scenario:**  **Refer to the Project Scenario for the Module Project**  You have been approached by ‘ABC Jobs Pte Ltd’ as a website developer to develop a community portal for Software Developers. The project will be carried over through Module 3, Module 4, Module 5 and Capstone project. For this module the scope is to Design, Develop, Implement & Document Struts Framework Website.  The Scope of the Project is to design a Community Portal Similar to Linkedin.com. Users will be able to register in the portal using the Registration Page. Users of the portal can search for other users using various parameters such as First Name, Last Name, Company Name, City & Country. Users will be able to view the Public Profile of users after searching them. The portal allow users to login, request for forgotten password and Update their profile information  The scope of the mini project is to implement the database in MySQL.  **The overview of the project is as below**  There are 2 types of users in this Community portal. They are   1. Software Programmer 2. Administrator   **Software Programmer should be able to perform following functions in the portal**   1. Allow the programmers to register in the portal, show a thank you page & send a registration confirmation email. 2. Search & Find Other Programmers after login and view their profile. 3. Provide Login Page 4. Provide password retrieval functionality. |

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| 1. Update their Profile after logging in.   Following Functionality is part of Database Design & Will be enhanced as features as required in the Capstone Project, Depending on time availability.   1. Send Messages to Each Other on the Portal 2. Create Threads & Post Replies to a Thread 3. Post Job Opportunities in the Portal   **Administrator should be able to perform following functions in the portal**   1. Administer user data. 2. Send bulk email inviting programmers to register on the community portal   **The portal consist of the following Key pages (For Reference)**   1. Community Portal Home Page 2. Registration Page 3. Registration Confirmation Page 4. Update Profile Page 5. Search Users Page 6. List Search Results 7. Public Profile Page 8. Registration Confirmation Email 9. Login Page 10. Forget Password Page 11. Design the Forget Password Confirmation Page   Following Functionality is part of Database Design and will not be part of development & Will be enhanced as features are required in the Capstone Project, Depending on time availability.   1. Send Messages 2. Read Messages 3. Post in Message Board 4. List Message Board 5. Read A Thread 6. Post Job Opportunities 7. List Job Opportunities & Responses   **The scope of this assignment**  The scope is to Implement the database in MySQL   * 1. Create the tables based on design in Mini Project 1   2. Take note of Field Name, Field Type & Size   3. Implement the database in MySQL and provide screen capture   4. Create a user name in MySQL which can be used by the application, give required access privileges. (Provide screen capture of the user with access privileges) |

e. Briefly list the web pages in the Community portal and queries which will be used by each of them.

1. Create the tables based on design in Mini Project 1

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| **Entity Name** | **Table Name** |
| Admin | Tb\_admin |
| Users | Tb\_users |
| User Profile | Tb\_user\_profile |
| Jobs | Tb\_Jobs  Tb\_Company |
| Messages | Tb\_Messages Tb\_Conversation |
| Thread | Tb\_Thread  Tb\_Comments |

1. Take note of Field Name, Field Type & Size

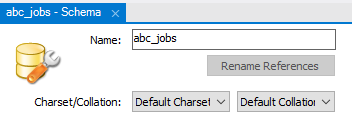
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| 1. **Entity Name** | **Table Name** |
| Admin | Tb\_admin   |  |  |  | | --- | --- | --- | | Field Name | Field Type | Size | | Id\_admin | INT | 11 | | Email | VARCHAR | 100 | | Password | VARCHAR | 100 | | First\_name | VARCHAR | 200 | | Last\_name | VARCHAR | 200 | |
| Users | Tb\_users   |  |  |  | | --- | --- | --- | | Field Name | Field Type | Size | | Id\_user | INT | 11 | | Email | VARCHAR | 100 | | Password | VARCHAR | 100 | |

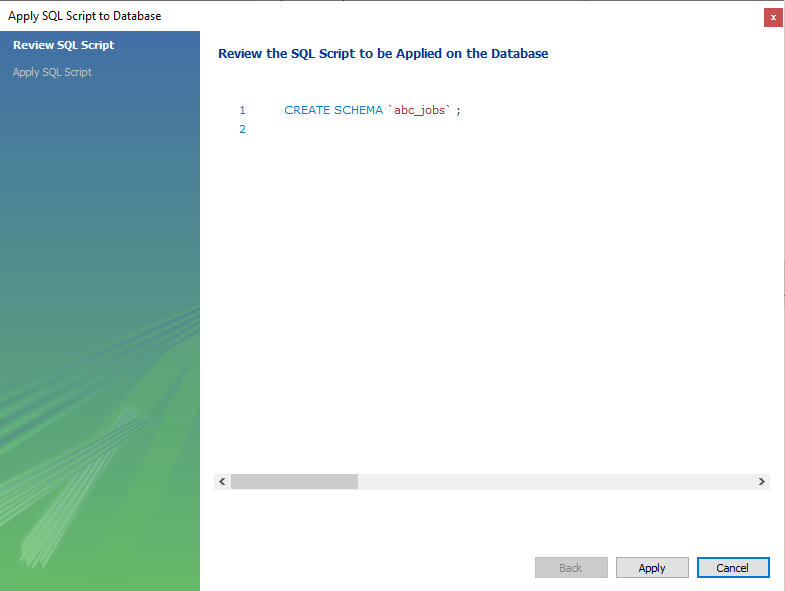
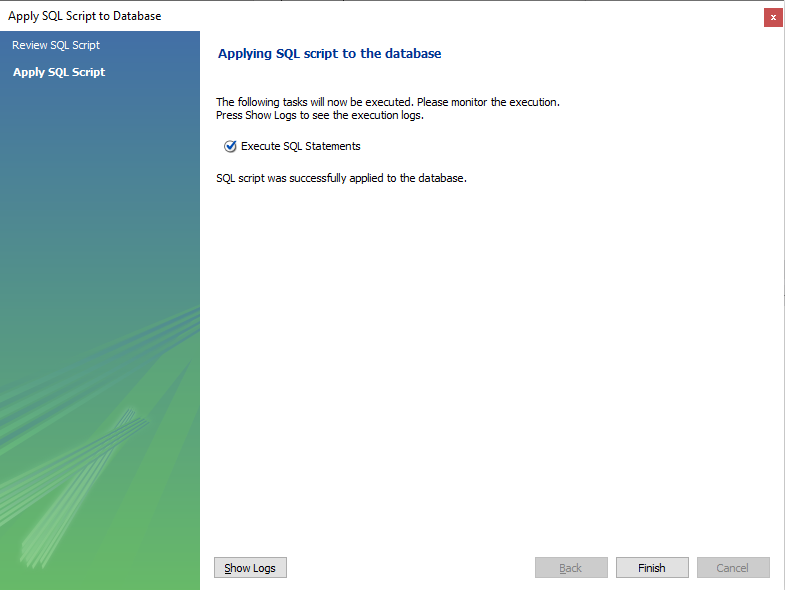
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| User Profile | Tb\_user\_profile   |  |  |  | | --- | --- | --- | | Field Name | Field Type | Size | | Id\_user\_profile | INT | 11 | | Fk\_id\_user | INT | 11 | | Fk\_id\_job | INT | 11 | | First\_name | VARCHAR | 200 | | Last\_name | VARCHAR | 200 | | Country | TEXT | 64 kb | | City | TEXT | 64 kb | | About | TEXT | 64 kb | | Profile\_picture | TEXT | 64 kb | |
| Jobs | Tb\_Jobs   |  |  |  | | --- | --- | --- | | Field Name | Field Type | Size | | Id\_job | INT | 11 | | Fk\_id\_admin | INT | 11 | | Fk\_id\_company | INT | 11 | | Job\_name | VARCHAR | 200 | | Job\_description | TEXT | 64 kb |   Tb\_Company   |  |  |  | | --- | --- | --- | | Field Name | Field Type | Size | | Id\_company | VARCHAR | 10 | | Company\_name | VARCHAR | 200 | | Country | TEXT | 64 kb | | City | TEXT | 64 kb | | Company\_picture | TEXT | 64 kb | |
| Messages | Tb\_Conversation   |  |  |  | | --- | --- | --- | | Field Name | Field Type | Size | | Id\_conversation | INT | 11 | | Fk\_id\_from | INT | 11 | | Fk\_id\_to | INT | 11 |   Tb\_Messages   |  |  |  | | --- | --- | --- | | Field Name | Field Type | Size | | Id\_message | INT | 11 | | Fk\_id\_conversation | INT | 11 | | Is\_from\_sender | BOOLEAN | 1 | | Message | TEXT | 64 kb | | Time\_sent | TIMESTAMP | 4 | |

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| Thread | Tb\_Thread   |  |  |  | | --- | --- | --- | | Field Name | Field Type | Size | | Id\_thread | INT | 11 | | Fk\_id\_user\_profile | INT | 11 | | Thread\_name | VARCHAR | 200 | | Thread\_content | TEXT | 64 kb | | Created\_at | TIMESTAMP | 4 |   Tb\_Comments   |  |  |  | | --- | --- | --- | | Field Name | Field Type | Size | | Fk\_id\_thread | INT | 11 | | Fk\_id\_user\_profile | INT | 11 | | Comment | TEXT | 64 kb | | Time\_sent | TIMESTAMP | 4 | |

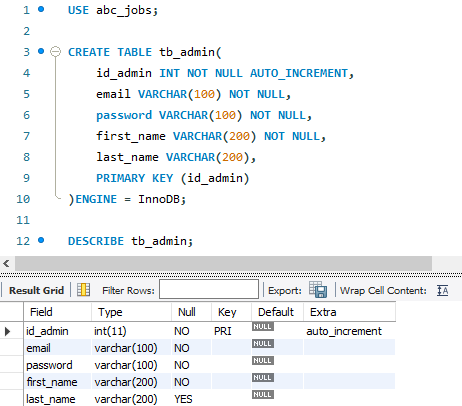
1. Implement the database in MySQL and provide screen capture

* Create Database

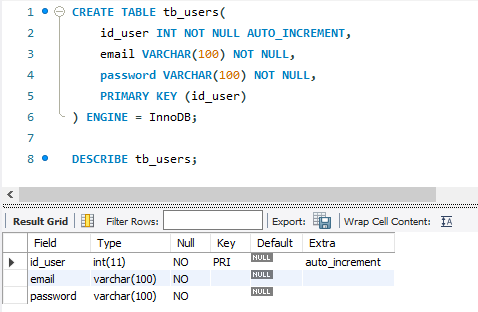


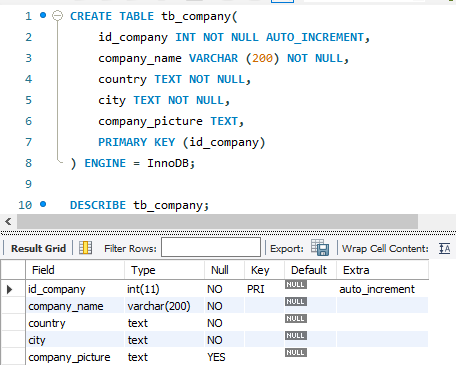
* **Create Admin Table**



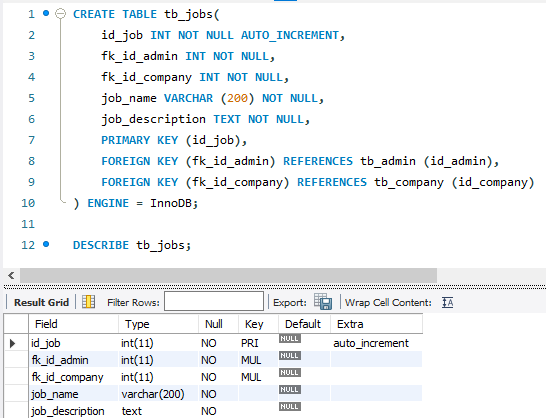
* **Create Users Table**



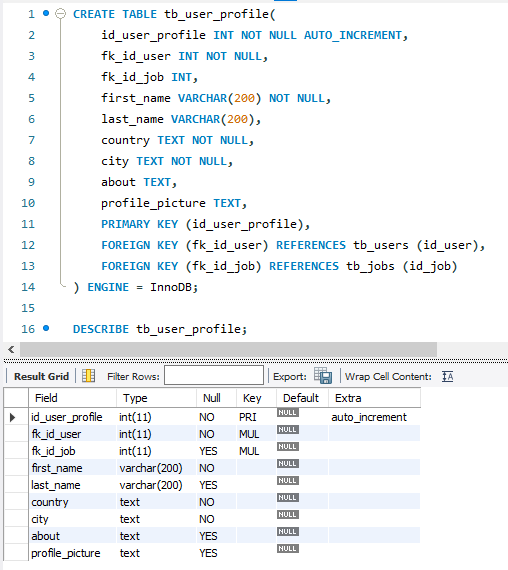
* **Create Company Table**



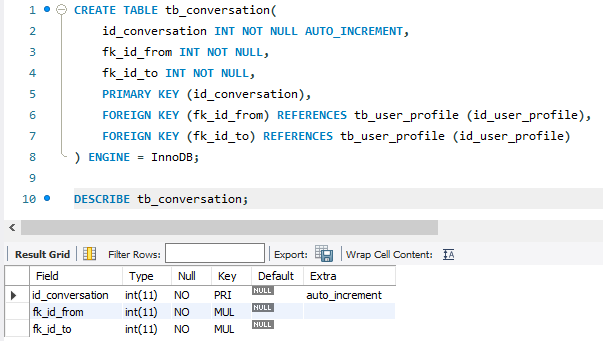
* **Create Jobs Table**



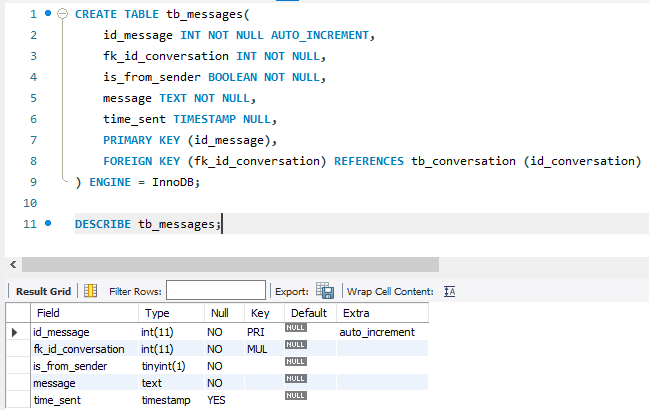
* **Create User Profile Table**



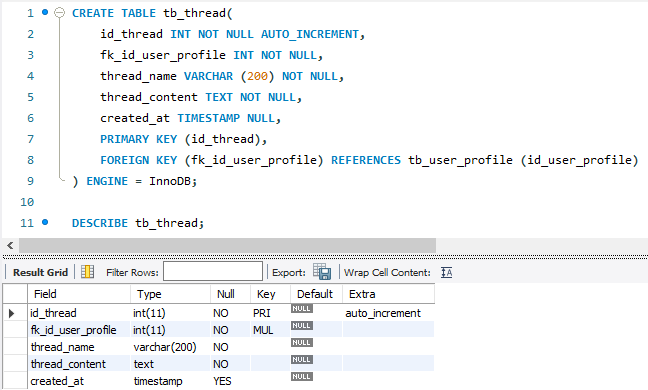
* **Create Conversation Table**



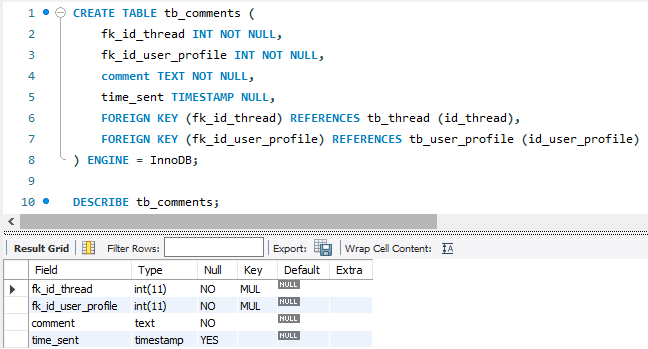
* **Create Messages Table**



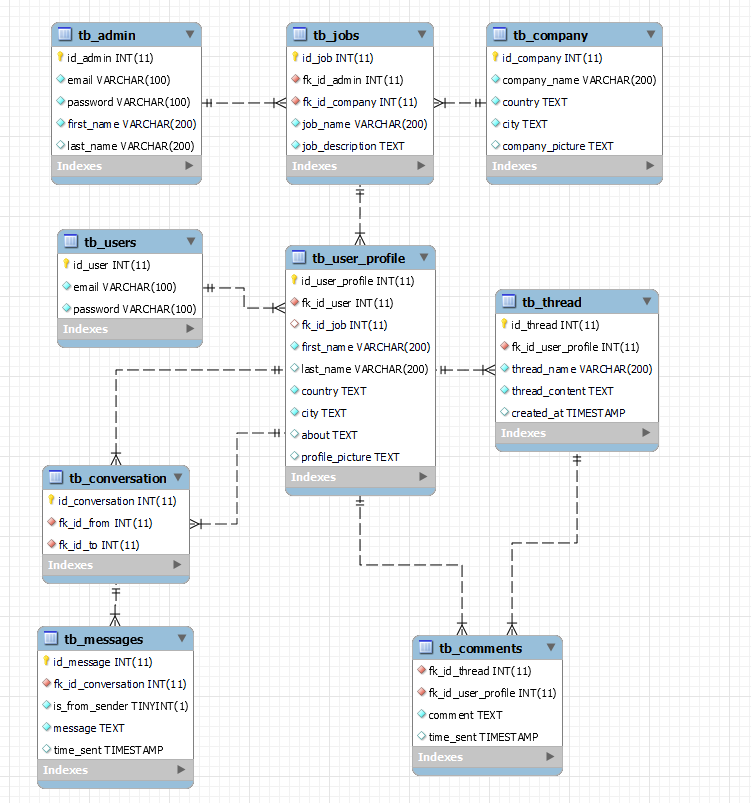
* **Create Thread Table**



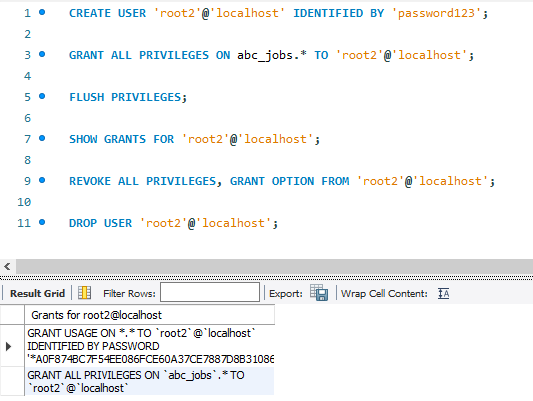
* **Create Comments Table**



* **EER DIAGRAM**

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1. Create a user name in MySQL which can be used by the application, give required access privileges. (Provide screen capture of the user with access privileges)



1. Briefly list the web pages in the Community portal and queries which will be used by each of them.

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| No | Page Name / Service Name | Query |
| 1 | Home | Show Featured Job = SELECT C.company\_name, J.job\_name, J.job\_description, C.country,C.city FROM tb\_jobs AS J INNER JOIN tb\_company AS C ON (J.fk\_id\_company = C.id\_company) WHERE J.id\_job IN (1,3,5); |
| 2 | Registration | INSERT INTO tb\_users (email, password) VALUES ('user@gmail.com', 'user123');  INSERT INTO tb\_user\_profile (fk\_id\_user, fk\_id\_job, first\_name, last\_name, country, city) VALUES (1, 1, 'Putri', 'Puspita', 'Indonesia', 'Bali'); |
| 3 | Update Profile | UPDATE tb\_user\_profile SET first\_name = 'Yoga', last\_name = 'Sathya', country = 'Indonesia', city = 'Bali' WHERE id\_user\_profile = 5; |
| 4 | Search Users | SELECT \* FROM tb\_user\_profile; |
| 5 | Public Profile | SELECT \* FROM tb\_user\_profile WHERE id\_user\_profile = 1; |
| 6 | Forgot Password | SELECT \* FROM tb\_users; |

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| 7 | Forgot Password Confirmation | UPDATE tb\_users SET password = ‘temporarypassword’ WHERE id\_user = 1; |
| 8 | Send Message | INSERT INTO tb\_conversation (fk\_id\_from, fk\_id\_to) VALUES (1,2);  INSERT INTO tb\_messages (fk\_id\_conversation, is\_from\_sender, message, time\_sent) VALUES (1, true, 'test message', '2022-12-30 12:10:10'), (1, false, 'test reply message', '2022-12-30 12:10:11'); |
| 9 | Read Message | SELECT C.id\_conversation, C.fk\_id\_from, C.fk\_id\_to, M.is\_from\_sender, M.message, M.time\_sent FROM tb\_messages AS M INNER JOIN tb\_conversation AS C ON (M.fk\_id\_conversation = C.id\_conversation) WHERE M.fk\_id\_conversation = 1; |
| 10 | Post Thread | INSERT INTO tb\_thread (fk\_id\_user\_profile, thread\_name, thread\_content, created\_at) VALUES (1, 'How to insert into database?', 'I want to insert data into my database table, how to do that?', '2022-10-10 10:10:10'); |
| 11 | Read Thread | SELECT \* FROM tb\_thread; |
| 12 | Post Job | INSERT INTO tb\_jobs (fk\_id\_admin, fk\_id\_company, job\_name, job\_description) VALUES (1, 1, ‘job’, ‘this is job’); |
| 13 | List Job | SELECT C.company\_name, J.job\_name, J.job\_description, C.country,C.city FROM tb\_jobs AS J INNER JOIN tb\_company AS C ON (J.fk\_id\_company = C.id\_company); |
| 14 | Apply Job | SELECT C.company\_name, J.job\_name, J.job\_description, C.country,C.city FROM tb\_jobs AS J INNER JOIN tb\_company AS C ON (J.fk\_id\_company = C.id\_company);  UPDATE tb\_user\_profile SET fk\_id\_job = 1 WHERE fk\_id\_user = 1; |