

Design & Implement Community Portal Database

Module Project

Module: Database Design and Implementation

Course: NICF-Advanced Certificate in Infocomm Technology (Software & Applications)

Start Date : 09/07/2022

End Date :09/08/2022

Submission Date :09/08/2022

Learner Name : Chathushi Jayarathna

Enrollment ID :

Presentation Date:

Document History



Version Number	Effective Date of release	Summary of Included Changes	Author
1	4 th March 2016	First Edition	Satya CVS
4	26 th July 2017	Changed for Module 4	Shrinivas K R
5	5 th June 2018	Changed for Module 4 RQF	Shrinivas K R

Contents

S. No.	Description
01	Development Tools
02	Database Requirements
03	Entities
04	Conceptual Design
05	Logical Design
06	Tables
07	Fields
08	Primary Key, Foreign Key & Indexes
09	SQL Queries
10	Report Queries
11	Indexes
12	Backup Script
13	Project Milestones & Tasks

Contents



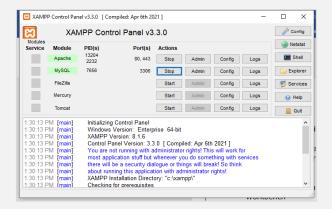
S. No.	Description			
17	Milestone Feedback & Action taken			
18	Modifications Made based On Feedback			
19	Project Results			
20	Proposed Improvements			

1. Development Tools

LITHAN

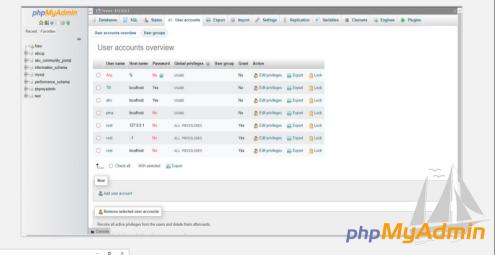
☐ Development Tools Screen captures

✓ XAMPP



✓ MySQL Workbench

✓ phpMyAdmin



```
♣ Local instance MySQL80 - W. ×
 Ø | | | | | |
     Nerigator cp_bulleoneil cp_scecurt cp_seerchuser

SCHEMAS 

Cp_bulleoneil cp_scecurt cp_seerchuser

SCHEMAS 

Cp_scecurt cp_seerchuser

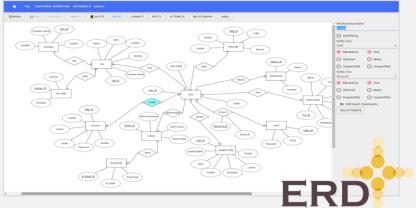
Cp_scecurt cp_scecurt cp_seerchuser

Cp_scecurt cp_scecurit cp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        < > | 3e % | Jampto
                                                                                       1 • ⊕ CREATE TABLE IF NOT EXISTS 'abc_community_portal'.'cp_user' (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Automatic context help is
                                                                                                                                        'User ID' INT NOT NULL AUTO INCREMENT .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        disabled. Use the toolbar t
manually get help for the
                                                                                                                                      'Username' VARCHAR(15) NOT MULL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             current caret position or to
toggle automatic help.
                                                                                                                                        PRIMRY KEY ('User ID')
                                                                                                           9 * @ CREATE TABLE IF NOT EXISTS 'abc_community_portal'.'cp_login' (
                                                                                                                                        'Email' VARCHAR(40) NOT NULL .
                                                                                                                                      'Password' VARCHAR(8) NOT NULL,
'User_ID' INT NOT NULL,
                                                                                                                                        FOREIGN KEY (User_ID) REFERENCES cp_user(User_ID))
                                                                                                         19 * O CREATE TABLE IF NOT EXISTS 'abc_community_portal'.'cp_admin' (
                                                                                                                                         'Admin Name' VARCHAR(40) NOT MULL ,
                                                                                                                                        'Admin Email' WARCHAR(40) NOT NULL,
'Admin Password' WARCHAR(8) NOT NULL,
                                                                                                                                        PRIMARY KEY ('Admin_ID'),
```

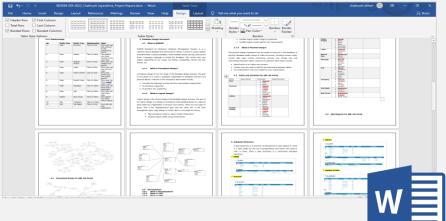
1. Development Tools

LITHAN

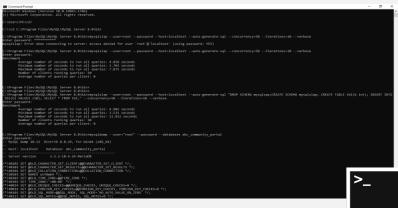
✓ ERDPlus.Com



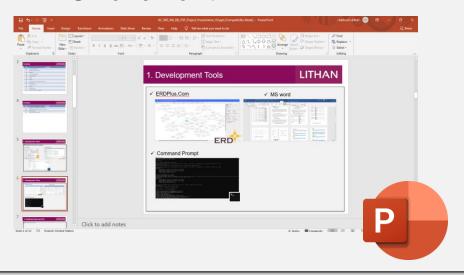
✓ MS word



✓ Command Prompt



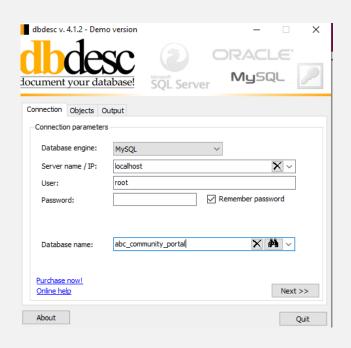
✓ MS PowerPoint



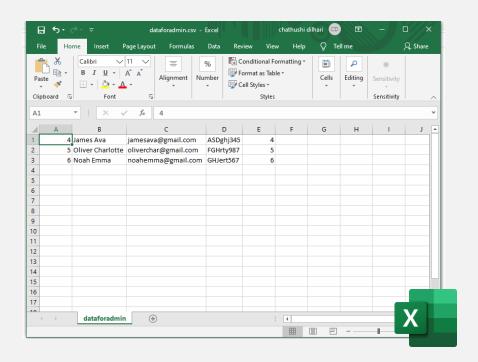
1. Development Tools



✓ dbdesc



✓ MS Excel



2. Database Requirements



✓ System Rrequirments

MySQL Workbench 8.0 CE

√ Hardware Requirements

Processer = i5

RAM = 12GB

Space on hard disk

✓ Software Requirements

MySQL Workbench 8.0.30

MySQL Server 8.0.30

Process	Database Table
Registration	User, Account
Login	User, Login
Update Profile	User, Update Profile
Search & find	User, Search User
Send Messages	User, Message
Read Messages	User, Message
Post in Message Board	User, Post Message
Post Job Opportunities	User, Job
List Job Opportunities & Responses	User, Job, Apply Job
Administer user data	User, Profile, Admin
Send Bulk Email	Admin, Bulk Email

2. Database Requirements



No	Entity One	Entity Two	Relationship	Note
1	User	Account	One to One	One user has one account in the Community Portal
2	User	Admin	One to Many	One admin can have access to the user data
3	User	Update Profile	One to One	One user can update one profile
4	User	Login	One to One	One user has one account login
5	User	Public Profile	One to One	One user profile has one public profile
6	User	Search User	One to Many	One user can have search many users
7	User	Message	One to Many	One user can send many messages
8	User	Job	One to Many	One user can find many jobs
9	Admin	Bulk Email	One to Many	One admin can send many emails
10	Job	Company	Many to Many	Many Jobs has Many Companies
11	Job	Job Apply	One to One	One job has one application

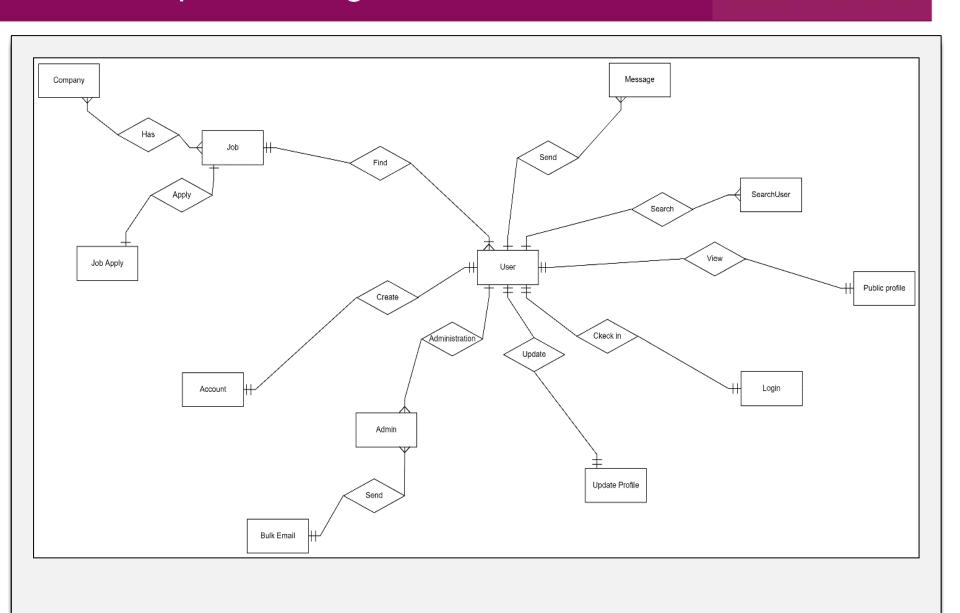
3. Entities



S. No.	Entities	Description
01	User	A registered user is uniquely identified in the portal with a User ID
02	Admin	Registered users can be an administrator to administer user data and send bulk email
03	Update Profile	1 user ID can have 1 profile that contains general information, contact information and is uniquely identified by the profile ID
04	Public Profile	The users can edit their profile details using Public profile page.
05	Login	All the users can log into the portal
06	Search User	Registered user can search other users, jobs
07	Message	Registered user can send and read messages to and from other users
08	Job	Registered user can post job opportunities, apply or list job opportunities and responses
09	Company	Registered user can find companies
10	Job Apply	Registered user can apply for job vacancies
11	Bulk Email	Bulk invite email can only be done by the administrator

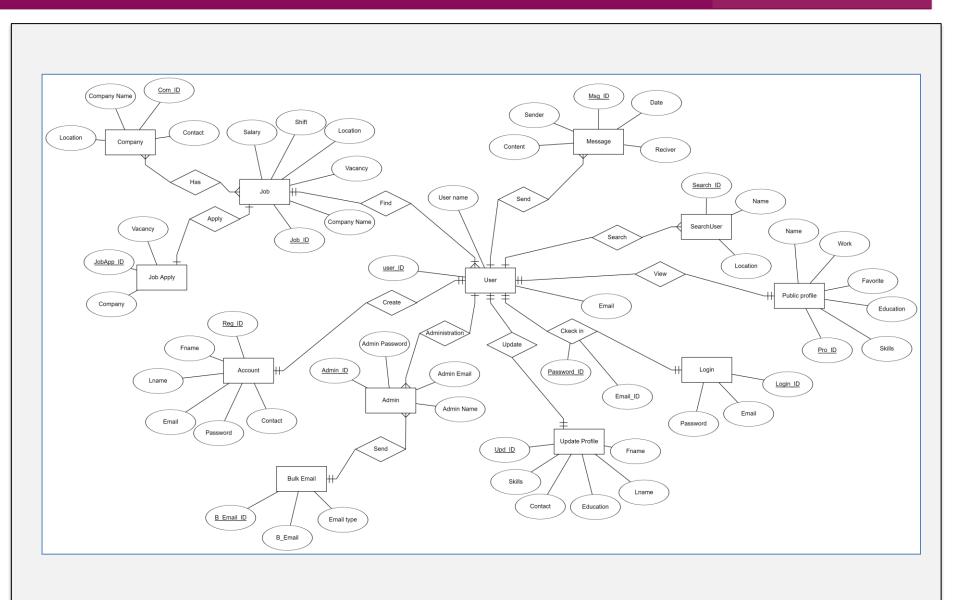
4. Conceptual Design





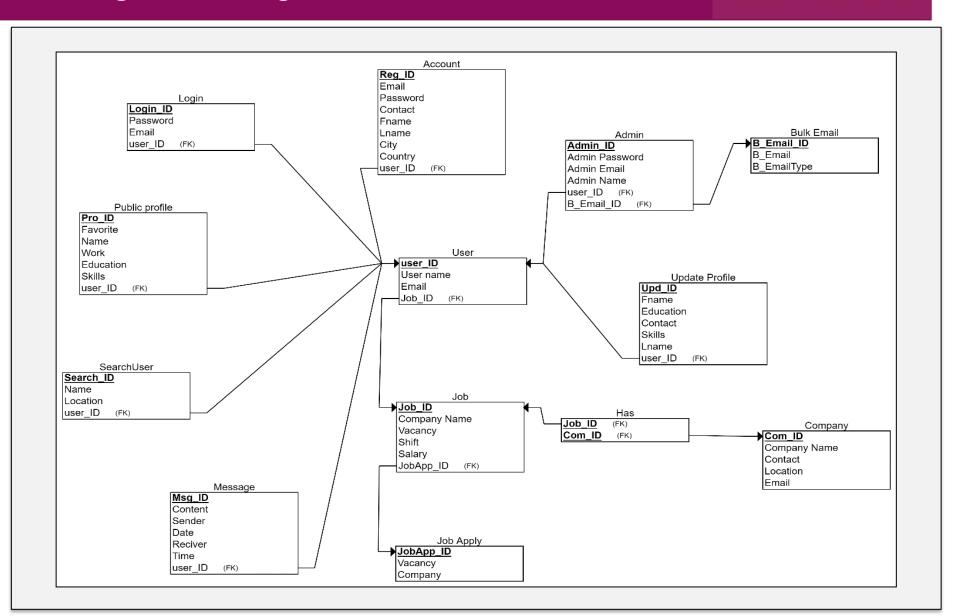
4. Conceptual Design





5. Logical Design





6. Tables



S. No.	Tables	Purpose of Table
01	Cp_User	To store user registration information
02	Cp_Account	To store the new users register details
03	Cp_Admin	To identify the user role as an administrator that has access to administer user data
04	Cp_UpdateProfile	To store user edit profile information
05	Cp_PublicProfile	To store user register and profile information
06	Cp_Login	To store user login details
07	Cp_SearchUser	To store user search history information
08	Cp_Message	To store user message information to send to another user
09	Cp_Job	To store user posted job information
10	Cp_Company	To store user posted company details
11	Cp_JobApply	Link between user and job, user can applied to posted job opportunities
12	Cp_BulkEmail	To store bulk email information that can only be send by the administrator

	Cp_use	•	
Field Name	Field Type	Size	
User_ID (pk)	INT	11	
Email	VARCHAR	40	
Username	VARCHAR	15	

Cp	_accour	nt	
Field Name	Field Type	Size	
Acoount_ID (pk)	INT	11	
Fname	VARCHAR	45	
Email	VARCHAR	45	
Password	VARCHAR	45	
Contact	INT	11	

	Cp_adm	in	
Field Name	Field Type	Size	
Admin_ID (pk)	INT	11	
Admin Name	VARCHAR	40	
Admin Password	VARCHAR	15	
Admin Email	VARCHAR	40	

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	User_ID 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	More
2	Username	varchar(20)	utf8mb4_general_ci		No	None			Change	Drop	More
3	Email	varchar(35)	utf8mb4_general_ci		No	None			Change	Drop	More

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	Regi_ID 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	More
2	Fname	varchar(20)	utf8mb4_general_ci		No	None			Change	Drop	More
3	Lname	varchar(20)	utf8mb4_general_ci		No	None			Change	Drop	More
4	Email	varchar(35)	utf8mb4_general_ci		No	None			Change	Drop	More
5	Password	varchar(10)	utf8mb4_general_ci		No	None			Change	Drop	More
6	Contact	int(15)			No	None			Change	Drop	More
7	City	varchar(20)	utf8mb4_general_ci		No	None			Change	Drop	More
8	Country	varchar(20)	utf8mb4_general_ci		No	None			Change	Drop	More
9	user_id 🔎	int(11)			No	None			⊘ Change	Drop	More

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	Admin_ID 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	More
2	admin name	varchar(40)	utf8mb4_general_ci		No	None			Change	Drop	More
3	email	varchar(35)	utf8mb4_general_ci		No	None			Change	Drop	More
4	password	varchar(10)	utf8mb4_general_ci		No	None			Change	Drop	More
5	user_id 🔑	int(11)			No	None			Change	Drop	More

Cp_updatepro									
Field Name	Field Type	Size							
Upd_ID (pk)	INT	11							
Skills	VARCHAR	60							
Contact	INT	11							
Education	VARCHAR	60							
Name	VARCHAR	60							
User_ID	INT	11							

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	Upd_ID 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	More
2	Fname	varchar(20)	utf8mb4_general_ci		No	None			Change	Drop	More
3	Lname	varchar(20)	utf8mb4_general_ci		No	None			Change	Drop	More
4	Skills	varchar(30)	utf8mb4_general_ci		No	None			Change	Drop	More
5	Education	varchar(30)	utf8mb4_general_ci		No	None			Change	Drop	More
6	Work	varchar(30)	utf8mb4_general_ci		No	None			Change	Drop	More
7	Contact	int(15)			No	None			Change	Drop	More
8	user_id 🔎	int(11)			No	None			Change	Drop	More

	Cp_login	
Field Name	Field Type	Size
Login_ID (pk)	INT	11
Email	VARCHAR	40
Password	VARCHAR	8



Cp_	_bulkem	ail
Field Name	Field Type	Size
B_Email_ID (pk)	INT	11
B_Email	VARCHAR	40
Email Type	VARCHAR	8

#	#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	1	B_Email_id 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	More
2	2	B_Email	varchar(35)	utf8mb4_general_ci		No	None			Change	Drop	More
3	3	B_EmailType	varchar(10)	utf8mb4_general_ci		No	None			Change	Drop	More
4	4	Admin_ID 🔎	int(11)			No	None			Change	Drop	More

C	p_messag	ge	
Field Name	Field Type	Size	
Field Name	Field Type	Size	
Msg_ID (pk)	INT	11	
Sender	VARCHAR	45	
Receiver	VARCHAR	45	
User_ID	INT	11	

#	ŧ N	lame	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	l M	/lsg_ID 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	More
2	C	Content	varchar(60)	utf8mb4_general_ci		No	None			Change	Drop	More
3	3 S	Sender	varchar(20)	utf8mb4_general_ci		No	None			Change	Drop	More
4	R	Reciver	varchar(20)	utf8mb4_general_ci		No	None			Change	Drop	More
5	5 D	Date	date			No	None			Change	Drop	More
6	5 T i	lime .	int(5)			No	None			Change	Drop	More
7	' u	ıser_id 🔑	int(11)			No	None			Change	Drop	More

Ср	_publicp	ro	
Field Name	Field Type	Size	
Pro_ID (pk)	INT	11	
Name	VARCHAR	20	
Work	VARCHAR	60	
Favorite	VARCHAR	60	
Education	VARCHAR	60	
Skills	VARCHAR	60	
User_ID	INT	11	



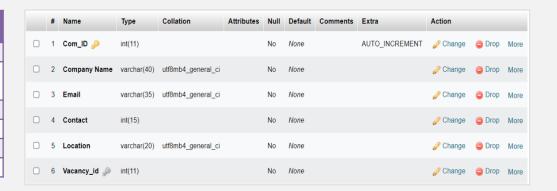
Cp_searchuser										
Field Name	Field Type	Size								
Search_ID (pk)	INT	11								
User_ID	INT	11								
Name	VARCHAR	60								

	#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
ı	1	search_id 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	More
	2	Name	varchar(35)	utf8mb4_general_ci		No	None			Change	Drop	More
	3	Location	varchar(20)	utf8mb4_general_ci		No	None			Change	Drop	More
	4	User_ID 🔎	int(11)			No	None			Change	Drop	More

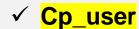
Field Name	Field Type	Size
Vacancy_ID (pk)	INT	
		11
Company Name	VARCHAR	40
Vacancy	VARCHAR	20
Salary	INT	11
Shift	VARCHAR	15
User_ID	INT	11

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	Vacancy_id 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	More
2	Company Name	varchar(20)	utf8mb4_general_ci		No	None			Change	Drop	More
3	Vacancy	varchar(20)	utf8mb4_general_ci		No	None			Change	Drop	More
4	Salary	int(15)			No	None			Change	Drop	More
5	Shift	varchar(20)	utf8mb4_general_ci		No	None			Change	Drop	More
6	user_id 🔎	int(11)			No	None			Change	Drop	More

Ср	_compai	ny
Field Name	Field Type	Size
Com_ID (pk)	INT	11
Company Name	VARCHAR	45
Contact	INT	11
Location	VARCHAR	60
User_ID	INT	11

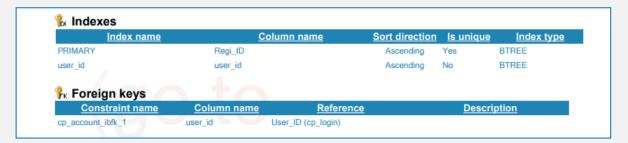


LITHAN





✓ Cp_account

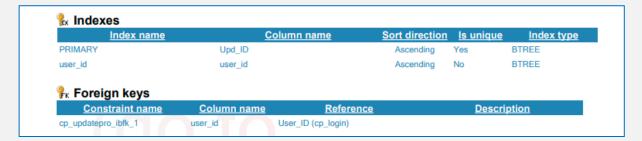


✓ Cp_admin

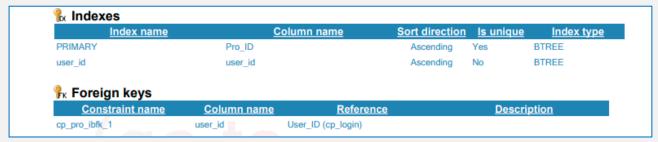


LITHAN

✓ Cp_UpdateProfile



✓ Cp_PublicProfile

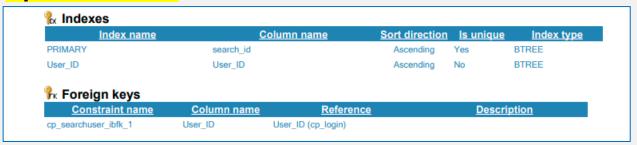


✓ Cp_PublicProfile

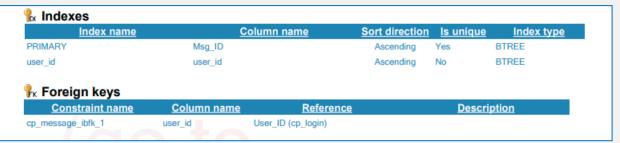
Index name		Column name	Sort direction	Is unique	Index type
PRIMARY	Login_ID		Ascending	Yes	BTREE
User_ID	User_ID		Ascending	No	BTREE
rk Foreign keys					
Constraint name	Column name	<u>Reference</u>		<u>Descri</u>	<u>ption</u>
	User ID	User_ID (cp_login)			

LITHAN

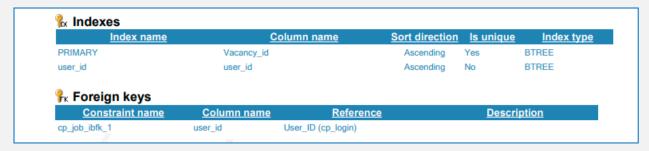
✓ Cp_searchuser



✓ Cp_message



✓ Cp_job

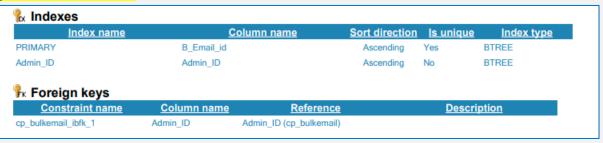


LITHAN

✓ Cp_company



✓ Cp_bulkemail



✓ Cp_jobapply

Index name	2	Column name	Sort direction	<u>Is unique</u>	Index type
PRIMARY	JopApp_ID		Ascending	Yes	BTREE
Vacancy_id	Vacancy_id		Ascending	No	BTREE
a					
🖟 Foreign keys					
Fx Foreign keys Constraint name	Column name	Reference		Descri	<u>ption</u>



Pages	Query	Note
Update Profile	INSERT INTO `cp_updatepro` (`Upd_id`, `Fname`, `Lname`, `Skills`, `Education`, `Work`, `Contact`, `user_id`) VALUES ('[value]', '[value]', '[value]', '[value]', '[value]', '[value]', '[value]')	Storing user records for Skills, Education, Work, Contact to the database

```
INSERT INTO `cp_updatepro` (`Upd_id`, `Fname`, `Lname`, `Skills`, `Education`, `Work`, `Contact`, `user_id`) VALUES (333, 'Chathu', 'Jayarathna', 'Flexible', 'Lithan Academy', 'AIA Finance', 742269978, 1), (334, 'Kevin', 'Leo', 'Painting', 'Winston Hotel School', 'Thaj', 760528233, 2), (335, 'Kara', 'Ashley', 'Goof Judgment', 'University of Stanford', 'S&S Holdings', 713800289, 3);
```

Upd_ID	Fname	Lname	Skills	Education	Work	Contact	user_id
333	Chathu	Jayarathna	Flexible	Lithan Academy	AIA Finance	742269978	1
334	Kevin	Leo	Painting	Winston Hotel School	Thaj	760528233	2
335	Kara	Ashley	Goof Judgment	University of Stanford	S&S Holdings	713800289	3



Pages	Query	Note
Job	INSERT INTO `cp_job` (`Vacancy_id`, `Company Name`, `Vacancy`, `Salary`, `Shift`, `user_id`) VALUES ('[value]', '[value]', '[value]', '[value]')	Storing job records for Company Name, Vacancy, Salary, Shift to the database

```
INSERT INTO `cp_job` (`Vacancy_id`, `Company Name`, `Vacancy`, `Salary`, `Shift`, `user_id`) VALUES
(1, 'Virtusa', 'Software Engineer', 90000, 'Morning', 1),
(2, 'Telecome', 'Technician', 50000, 'Split', 2),
(3, 'Corella', 'Web Developer', 80000, 'Closing', 3);
```

Vacancy_id	Company Name	Vacancy	Salary	Shift	user_id
1	Virtusa	Software Engineer	90000	Morning	1
2	Telecome	Technician	50000	Split	2
3	Corella	Web Developer	80000	Closing	3



Pages	Query	Note
Account	INSERT INTO `cp_account` (`Regi_id`, `Fname`, `Lname`, `Email`, `Password`, `Contact`, `City`, `Country`, `user_id`) VALUES ('[value]', '[value]', '[value]', '[value]', '[value]', '[value]', '[value]')	Storing user registration records for Email, Contact, Password, City, Country to the database

```
INSERT INTO `cp_account` (`Regi_id`, `Fname`, `Lname`, `Email`, `Password`, `Contact`, `City`, `Country`, `user_id`) VALUES (11, 'Chathu', 'Dil', 'chathu7@gmail.com', 'AGFmnv678', 742269978, 'Bandarawela', 'Sri Lanka', 1), (22, 'Kevin', 'Leo', 'kevin88@gmail.com', 'QWEsdf123', 760528233, 'Tokyo', 'Japan', 2), (33, 'Kara', 'Ashley', 'kara56@gmail.com', 'CVByui098', 713800289, 'Rome', 'Italy', 3);
```

Regi_id	Fname	Lname	Email	Password	Contact	City	Country	user_id
1	1 Chathu	Dil	chathu77@gmail.com	AGFmnv678	742269978	Bandarawela	Sri Lanka	1
2	2 Kevin	Leo	kevin88@gmail.com	QWEsdf123	760528233	Tokyo	Japan	2
3	3 Kara	Ashley	kara56@gmail.com	CVByui098	713800289	Rome	Italy	3



Pages	Query	Note
Admin	INSERT INTO `cp_admin` (`admin_id`, `admin name`, `email`, `password`, `user_id`) VALUES ('[value]', '[value]', '[value]')	Storing admin details for Admin Name, Email and password to the database

```
INSERT INTO `cp_admin` (`admin_id`, `admin name`, `email`, `password`, `user_id`) VALUES
(1, 'Emma Perry', 'emmaperry@gmail.com', 'IUYsdf789', 1),
(2, 'Jenny Smith', 'jennysmith@gmail.com', 'GHJtyu678', 2),
(3, 'Jacob Tyler', 'jacobtyler@gmail.com', 'FJKrty673', 3);
```

admin_id	admin name	email	password	user_id
1	Emma Perry	emmaperry@gmail.com	IUYsdf789	1
2	Jenny Smith	jennysmith@gmail.com	GHJtyu678	2
3	Jacob Tyler	jacobtyler@gmail.com	FJKrty673	3



Pages	Query	Note
User	INSERT INTO `cp_user` (`user_id`, `Username`, `Email`) VALUES ('[value]', '[value]')	Storing user record for username, Email to the database

```
INSERT INTO `cp_user` (`user_id`, `Username`, `Email`) VALUES
(1, 'chathu77', 'chathu77@gmail.com'),
(2, 'kevin88', 'kevin88@gmail.com'),
(3, 'kara56', 'kara56@gmail.com');
```

User_ID	Username	Email
1	chathu77	chathu77@gmail.com
2	kevin88	kevin88@gmail.com
3	kara56	kara56@gmail.com

10. Report Queries

	S. No.	Purpose of Query	Query
	01	All users' personal details, to fetch users, contact info information	SELECT regi_id, CONCAT(Fname, ' ',Lname) AS name, Email, Contact, CONCAT(City, ', ',Country) AS Location FROM cp_account ORDER BY name;
			← T→ regi_id name △ 1 Email Contact Location
			□ 🖉 Edit 👫 Copy 😂 Delete 11 Chathu Dil chathu77@gmail.com 742269978 Bandarawela, Sri Lanka
ı			☐ ② Edit ♣ Copy ⑤ Delete 33 Kara Ashley kara56@gmail.com 713800289 Rome, Italy ☐ ② Edit ♣ Copy ⑥ Delete 22 Kevin Leo kevin88@gmail.com 760528233 Tokyo, Japan
	02	All user's update profile details, to fetch	SELECT cp_updatepro.Upd_ID, CONCAT(cp_updatepro.FName, ' '
		users, Public Profile information	,cp_updatepro.LName) AS FullName,
			cp_pro.Work, cp_pro.Favorite, cp_pro.Education
			FROM cp_updatepro
			JOIN cp_pro
			ON cp_updatepro.Upd_ID=cp_pro.Pro_ID
			ORDER BY FullName;ORDER BY name;
			Upd_ID FullName 🛦 1 Work Favorite Education
			333 Chathu Jayarathna AIA Finance Music, Food Lithan Academy
			335 Kara Ashley S&S Holdings Reading University of Stanford
			334 Kevin Leo Thaj Travel Winston Hotel School

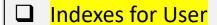
10. Report Queries

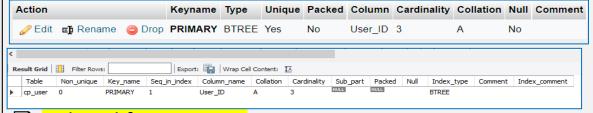


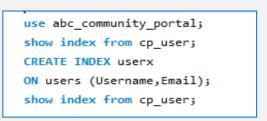
S.No	Purpose of Query	Query							
03	All users update profile details, to	SELECT cp_company.Com_id,							
	fetch users, Public Profile	CONCAT(cp_company.Email, ' ' ,cp_company.Contact)							
	information	AS About,							
		cp_job.Vacancy_id, cp_job.Salary, cp_job.Shift							
		FROM cp_company							
		JOIN cp_job							
		ON cp_company.Com_id=cp_job.Vacancy_id							
		ORDER BY About;							
		, and the second							
		Com_id About 🔺 1 Vacancy_id Salary Shift							
		3 corella@gmail.com 573800289 3 80000 Closing							
		2 telecom@gmail.com 570528233 2 50000 Split							
		1 virtusa@gmail.com 572269976 1 90000 Morning							

11. Indexes

LITHAN



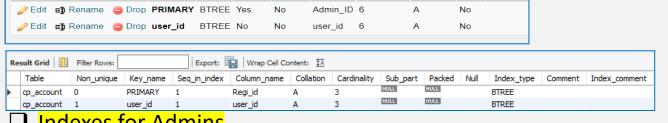




Indexed for Accounts

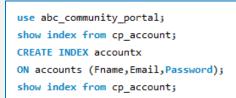
Action

Action



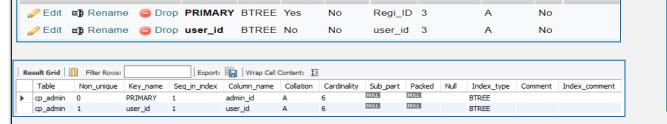
Unique Packed Column Cardinality Collation Null Comment

Keyname Type Unique Packed Column Cardinality Collation Null Comment



Indexes for Admins

Keyname Type

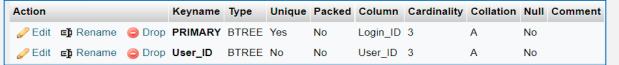


```
use abc_community_portal;
show index from cp_admin;
CREATE INDEX adminx
ON admins (email,password);
show index from cp_admin;
```

11. Indexes

LITHAN

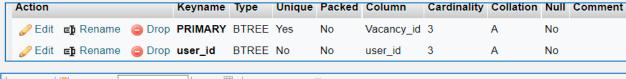




Result Grid III Filter Rows: Export:													
	Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
•	cp_login	0	PRIMARY	1	Login_id	Α	3	NULL	NULL		BTREE		
	cp_login	1	User_ID	1	User_ID	Α	3	NULL	NULL		BTREE		

use abc_community_portal;
show index from cp_login;
CREATE INDEX loginx
ON logins (Email,Password);
show index from cp_login;

☐ Indexes for Jobs



	Result Grid	Filter Rov	vs:	Expo	rt: 识 Wrap O	ell Content:	<u>‡A</u>						
	Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
Þ	cp_job	0	PRIMARY	1	Vacancy_id	Α	3	NULL	NULL		BTREE		
L	cp_job	1	user_id	1	user_id	Α	3	NULL	NULL		BTREE		

use abc_community_portal;
show index from cp_job;
CREATE INDEX jobx
ON jobs (Salary,Shift);
show index from cp_job;

☐ Indexes for Search users



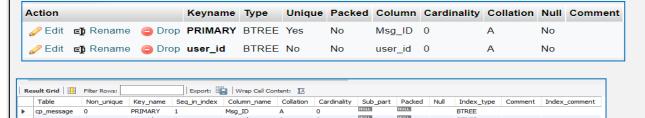
Re	sult Grid 📗 F	Filter Rows:		Export:	Wrap Cell Conte	ent: <u>IA</u>							
	Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
•	cp_searchuser	0	PRIMARY	1	search_id	Α	3	NULL	NULL		BTREE		
	cp_searchuser	1	User_ID	1	User_ID	Α	3	NULL	NULL		BTREE		

use abc_community_portal;
show index from cp_searchuser;
CREATE INDEX searchx
ON searchs (Name, Location);
show index from cp_searchuser;

11. Indexes

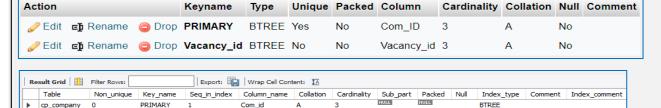
LITHAN

☐ Indexes for Messages



use abc_community_portal;
show index from cp_message;
CREATE INDEX messagex
ON messages (Sender, Reciver);
show index from cp_message;

Indexed for Companies



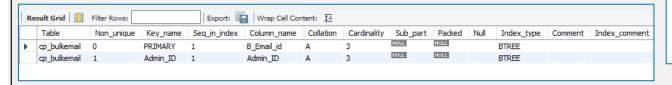
Vacancy id

use abc_community_portal;
show index from cp_company;
CREATE INDEX companyx
ON companys (Email,Contact,Location);
show index from cp_company;

☐ Indexes for Job Bulk Emails

cp_company





use abc_community_portal;
show index from cp_bulkemail;
CREATE INDEX bulkemailx
ON bulkemails (B_Email,B_EmailType);
show index from cp_bulkemail;

12. Backup Script



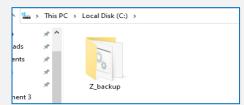
Step 1 - Choose your community portal database and test the command (mysqldump --user="root" --password --databases abc_community_portal)

```
C:\Windows\System32\cmd.exe — — X

ct

C:\Program Files\MySQL\MySQL Server 8.0\bin>mysqldump --
user="root" --password --databases abc_community_portal
Enter password:
```

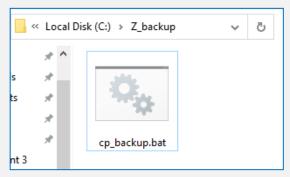
Step 2 - Create a folder in c drive name as Z backup



Step 3 - Create the script as executable file.

Copy the command (mysqldump --user="root" --password --databases abc_community_portal > "C:\Z_backup\ abc_community_portal.sql) in a text field and save it as cp_backup.bat

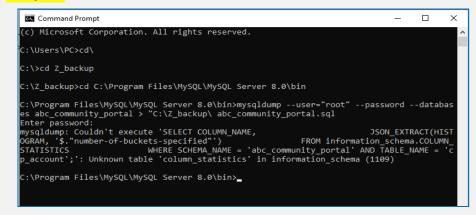
```
"Untitled · Notepad
File Edit Format View Help
mysqldump --user="root" --password --databases abc_community_portal >
"C:\Z_backup\ abc_community_portal.sql) in a text field and save it as cp_backup.bat
```



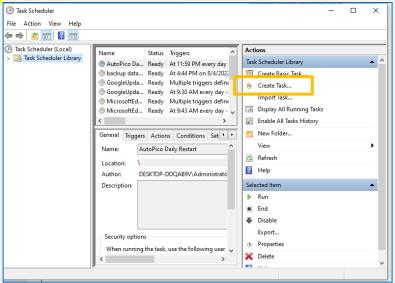
12. Backup Script

LITHAN

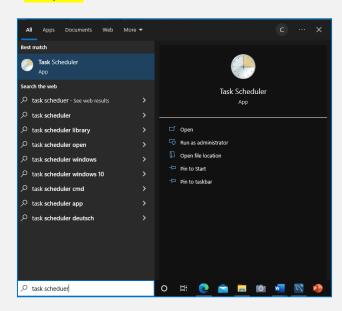
Step 4 - Test the batch file



Step 6 -Click on create task



Step 5 – Go to the Task Schedule



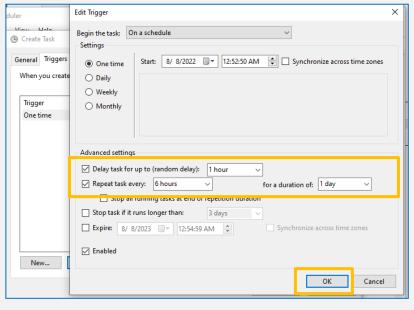
12. Backup Script



Step 7 -Enter the Take Name

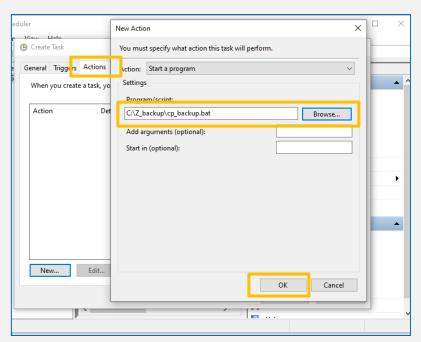


Step 8 - Create the trigger to run the task at the schedules time (every 6hours)

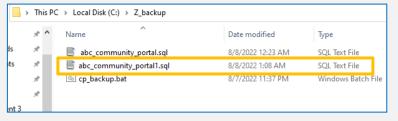


Step 9 - Set the action to be triggered.

Browse and choose the batch file location



Step 10 - The backup file will appear automatically in the batch file directory



13. Project Milestones & Tasks



Project Task ID	Project Major Task Description	Project Milestone ID			
1	Setup the Development Environment based on the Technical Development Environment	1			
2	Power point detailing the entities tables and fields which need				
3	3 Power point will also include Conceptual, Logical Design				
4	Develop the Schema creation script or Implement using phpMyAdmin	2			
5	Power point which Analyze and list the Queries which need to be created based on project requirements	3			
6	Indexes & Backup Script	3			

14. Milestone Feedback & Action taken



Project Milestone ID	Milestone Feedback received from Tutor / Learning Facilitator	Action Taken (Yes / No)		
	Design ER Diagram	yes		
4	Create ER Diagram	Yes		
1	Modify the ER Diagram	Yes		
	Normalizing the tables	yes		
2	Implementing the database in MySQL	Yes		
2	Create EER with Reverse Engineer	Yes		
	Compare EER with Reverse Engineer	Yes		
	Compare EER with Relational Schema	Yes		
	Add sample data to the database	Yes		
3	Backup the database using mysqldump	Yes		
	Creating Project Report	Yes		
	Creating Project Presentation	Yes		

15. Modifications Made based On Feedback LITHAN

- ✓ ERD was created by adding new entities and attributes
- ✓ Connect the tables with foreign keys in EERD

16. Project Results



☐ List of Tables

- ☐ Cp_account
- ☐ Cp_admin
- ☐ Cp_bulkemail
- ☐ Cp_company
- ☐ Cp_job
- ☐ Cp_jobapply
- ☐ Cp_login
- ☐ Cp_message
- ☐ Cp_pro
- ☐ Cp_searchuser
- ☐ Cp_updatepro
- ☐ Cp_user

Table 🔺	Actio	on						Rows) Ty	ype	Collation	Size	Overhead
cp_account	*	Browse	M Structure	Rearch	≩≟ Insert	Empty	Drop		3 In	noDB	utf8mb4_general_ci	32.0 KiB	-
cp_admin	$\stackrel{\wedge}{\mathbb{H}}$	Browse	M Structure	Rearch	≩≟ Insert	Empty	Drop		6 In	noDB	utf8mb4_general_ci	32.0 KiB	-
cp_bulkemail	*	Browse	M Structure	Rearch	≩≟ Insert	Empty	Drop		3 In	noDB	utf8mb4_general_ci	32.0 KiB	-
cp_company	$\stackrel{\wedge}{\mathbb{H}}$	Browse	M Structure	Rearch	≩≟ Insert	Empty	Drop		3 In	noDB	utf8mb4_general_ci	32.0 KiB	-
cp_job	*	Browse	M Structure	Rearch	≩≟ Insert	Empty	Drop		3 In	noDB	utf8mb4_general_ci	32.0 KiB	-
cp_jobapply	$\stackrel{\wedge}{\cong}$	Browse	Structure	Rearch	≩ å Insert	Empty	Drop		3 In	noDB	utf8mb4_general_ci	32.0 KiB	-
cp_login	$\stackrel{\wedge}{\mathbb{H}}$	Browse	Structure	Rearch	≩ å Insert	Empty	Drop		3 In	noDB	utf8mb4_general_ci	32.0 KiB	-
cp_message	$\stackrel{\wedge}{\mathbb{H}}$	Browse	M Structure	Rearch	≩≟ Insert	⊞ Empty	Drop		ø In	noDB	utf8mb4_general_ci	32.0 KiB	-
cp_pro	$\stackrel{\wedge}{\mathbb{H}}$	Browse	M Structure	Rearch	≩≟ Insert	Empty	Drop		3 In	noDB	utf8mb4_general_ci	32.0 KiB	-
cp_searchuser	$\stackrel{\wedge}{\mathbb{H}}$	Browse	M Structure	Rearch	≩≟ Insert	Empty	Drop		3 In	noDB	utf8mb4_general_ci	32.0 KiB	-
cp_updatepro	$\stackrel{\wedge}{\mathbb{H}}$	Browse	M Structure	Rearch	≩≟ Insert	Empty	Drop		3 In	noDB	utf8mb4_general_ci	32.0 KiB	-
cp_user	$\stackrel{\wedge}{\mathbb{H}}$	Browse	Structure	Rearch	≩ ≟ Insert	Empty	Drop		3 In	noDB	utf8mb4_general_ci	16.0 KiB	-
users	$\stackrel{\wedge}{\mathbb{H}}$	Browse	M Structure	Rearch	3-≟ Insert	mety Empty	Drop		ø In	noDB	utf8mb4_general_ci	16.0 KiB	-

17. Proposed Improvements



☐ List of	Improvements
-----------	---------------------

It would be better if more details were added