

UNIVERSITY OF NORTH TEXAS
COMPUTER SCIENCE DEPARTMENT
CSCE5350/FUNDAMENTALS OF DATABASE SYSTEMS

Technologies used in the above system: MySQL, NodeJS, ExpressJS, EJS Template Engine.

Software's need to be installed:

- 1) Install NodeJS
- 2) MySQL Workbench

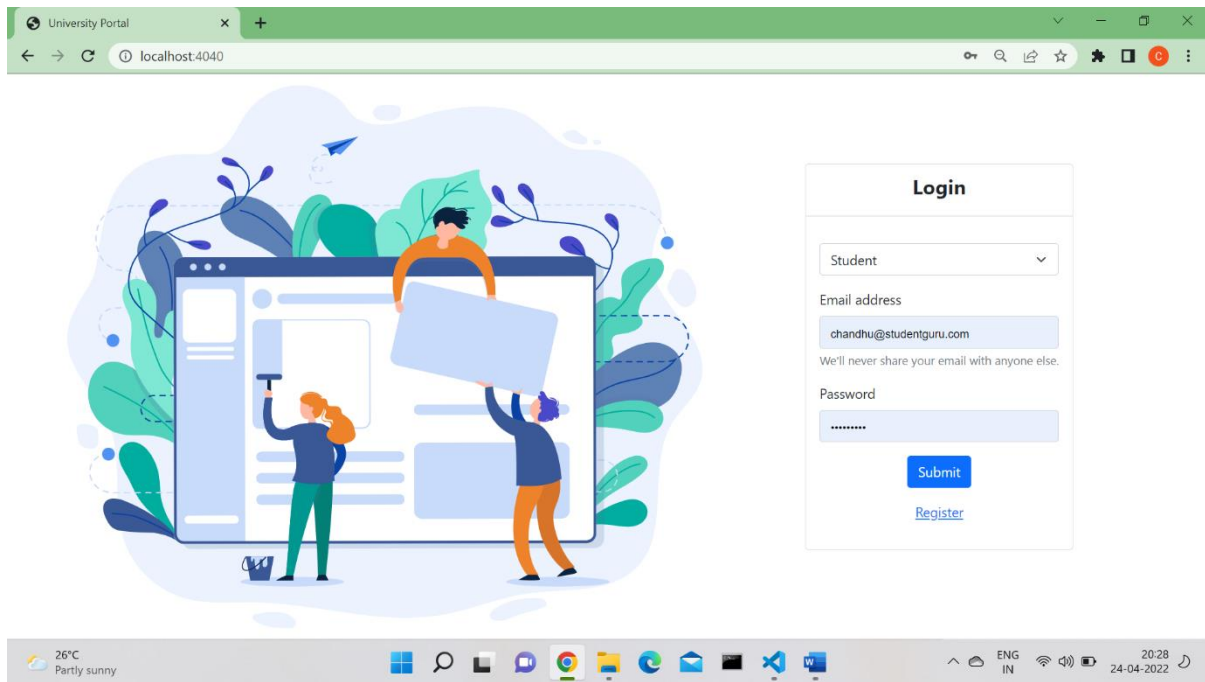
Steps to import the database:

- Login to the mysql Workbench.
- Create a new schema.
- Load the sql file which is in the zip folder.

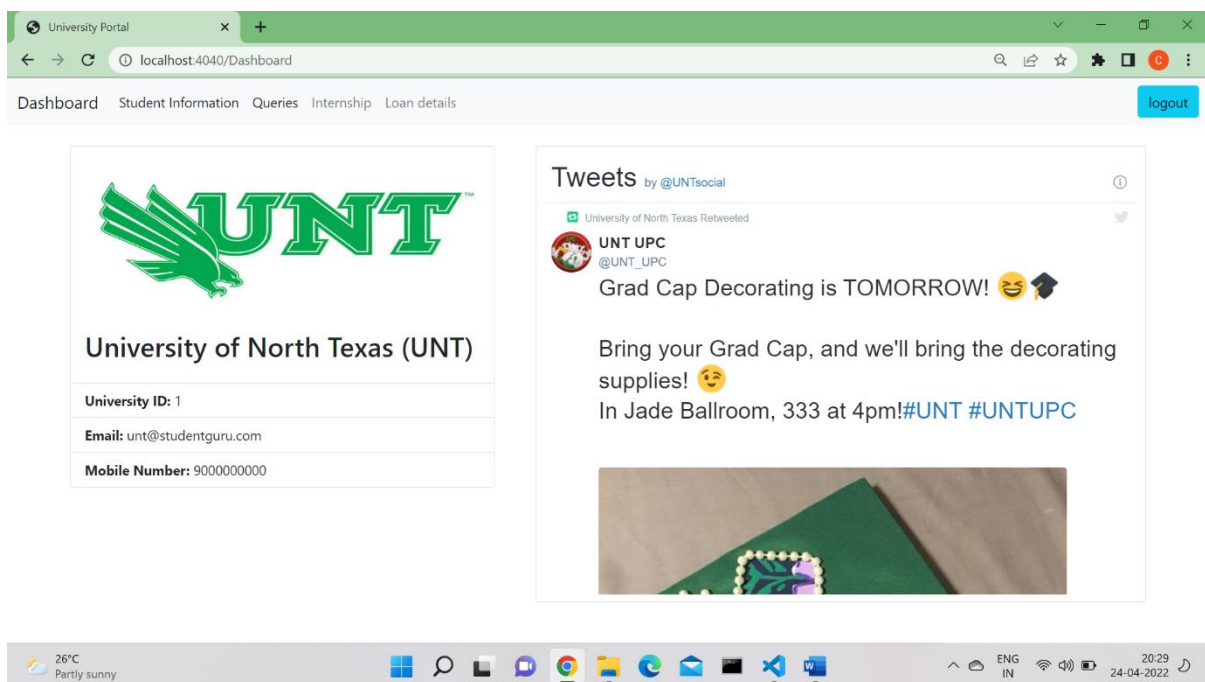
Steps to run the project:

- Open the folder in the zip.
- Enter the command `npm install`, packages related to the file will be installed.
- And then to run the project enter the command `npm start`.
- And then in the web browser enter the localhost address.

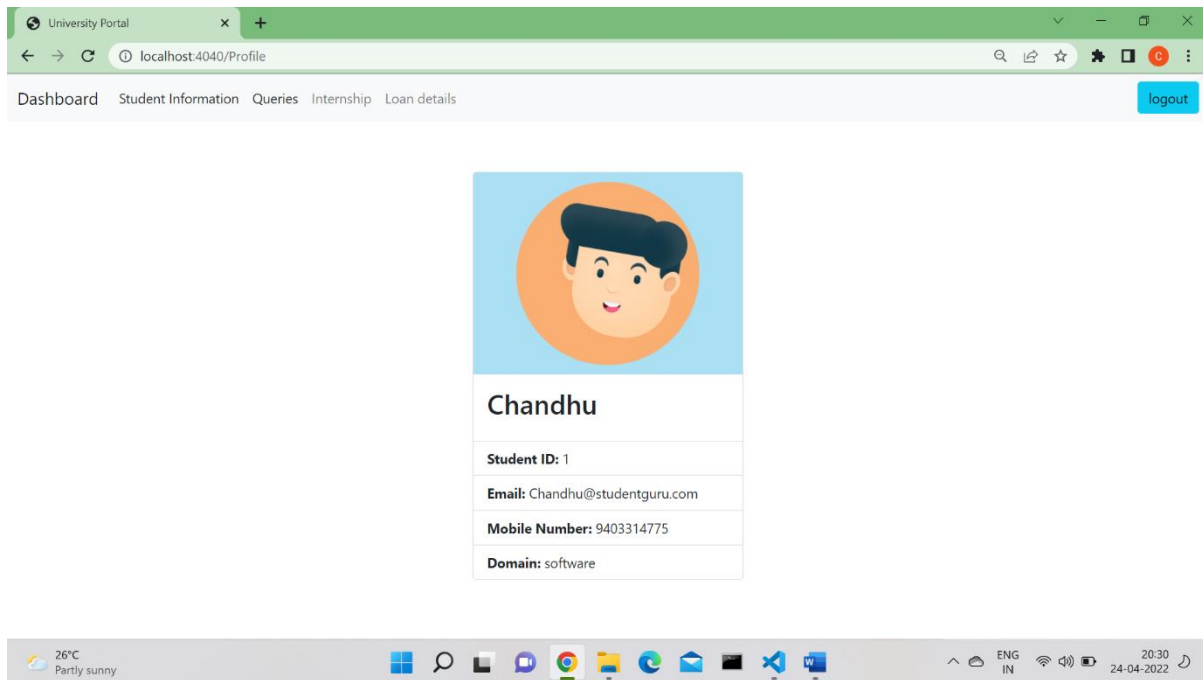
NOTE: `index.js` is the root file of project



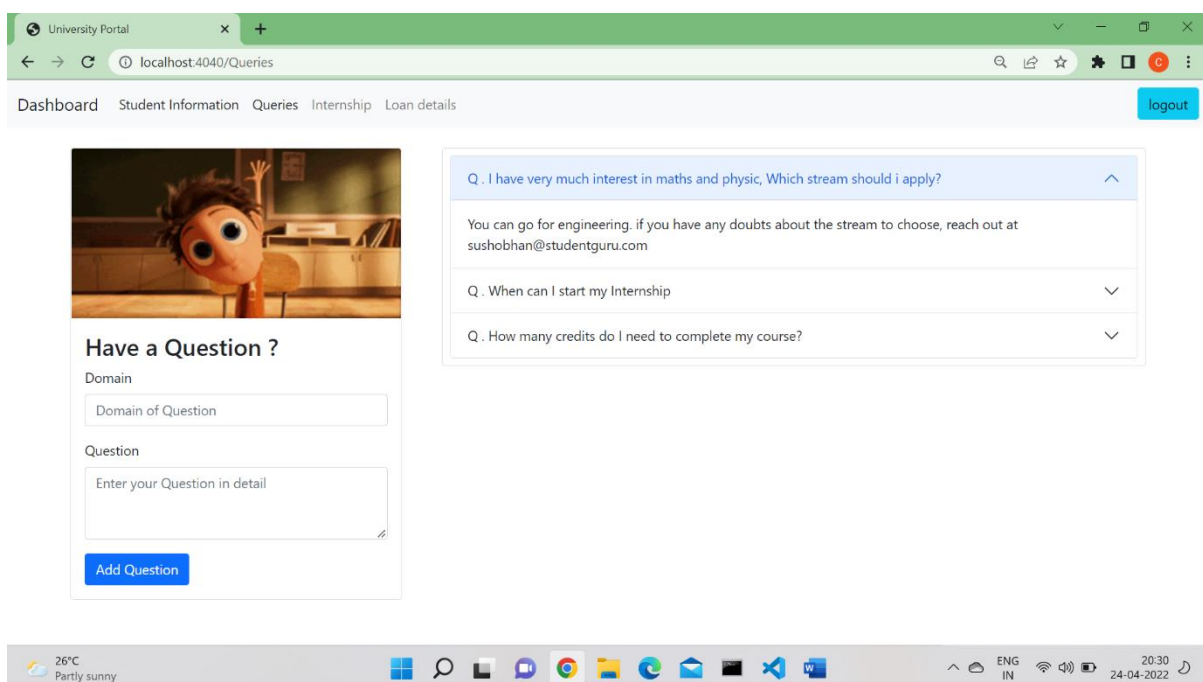
Here is the login page of our project where we can select the dropdown as student and enter the student email and password. Where the account login details are stored in the database.



Here is the page appears after the student login. Student has the options live viewing the twitter handle, seeing student info, queries, internship and loan details. And also the university details.



When the user clicks on the student information, he gets his details like student id, email, mobile number and the domain.




When the user clicks on the queries, he is able to see the queries he asked to the professor and also he has the capability to ask the new question to the professor.

University Portal x +

localhost:4040/Internship

Dashboard Student Information Queries Internship Loan details

logout



Chandhu	amazon
Student ID: 1	Company ID: 123
Email: Chandhu@studentguru.com	Email: intern@amazon.com
Mobile Number: 9403314775	Internship ID: 1
Domain: software	Job Role: Intern

26°C Partly sunny

ENG IN 20:31 24-04-2022


When the user clicks on the internship, he gets his details as the company details he is doing internship in.

University Portal x +

localhost:4040/Dashboard

Dashboard Student Information Queries Internship Loan details

logout



University of North Texas (UNT)

University ID: 1
Email: unt@studentguru.com
Mobile Number: 9000000000

Tweets by @UNTsocial

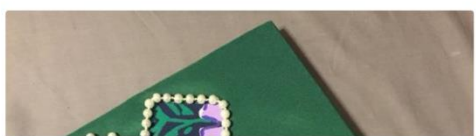
University of North Texas Retweeted

UNT UPC
@UNT_UPC

Grad Cap Decorating is TOMORROW! 🎓👏

Bring your Grad Cap, and we'll bring the decorating supplies! 🎨👏

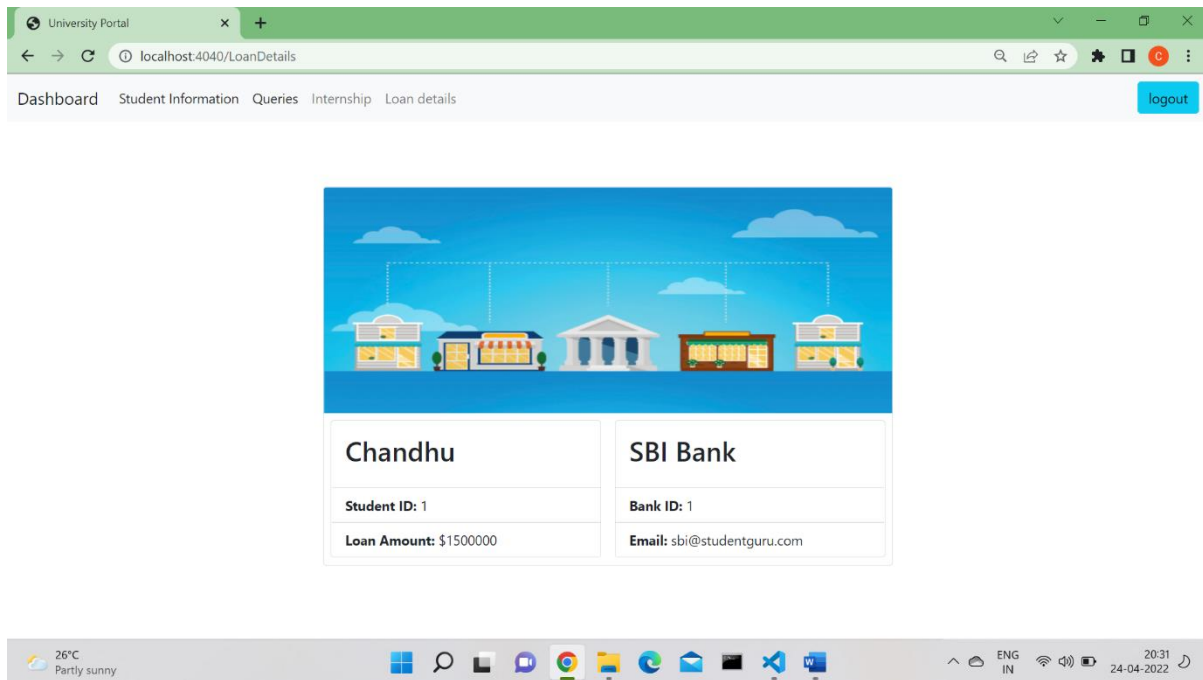
In Jade Ballroom, 333 at 4pm! #UNT #UNTUPC



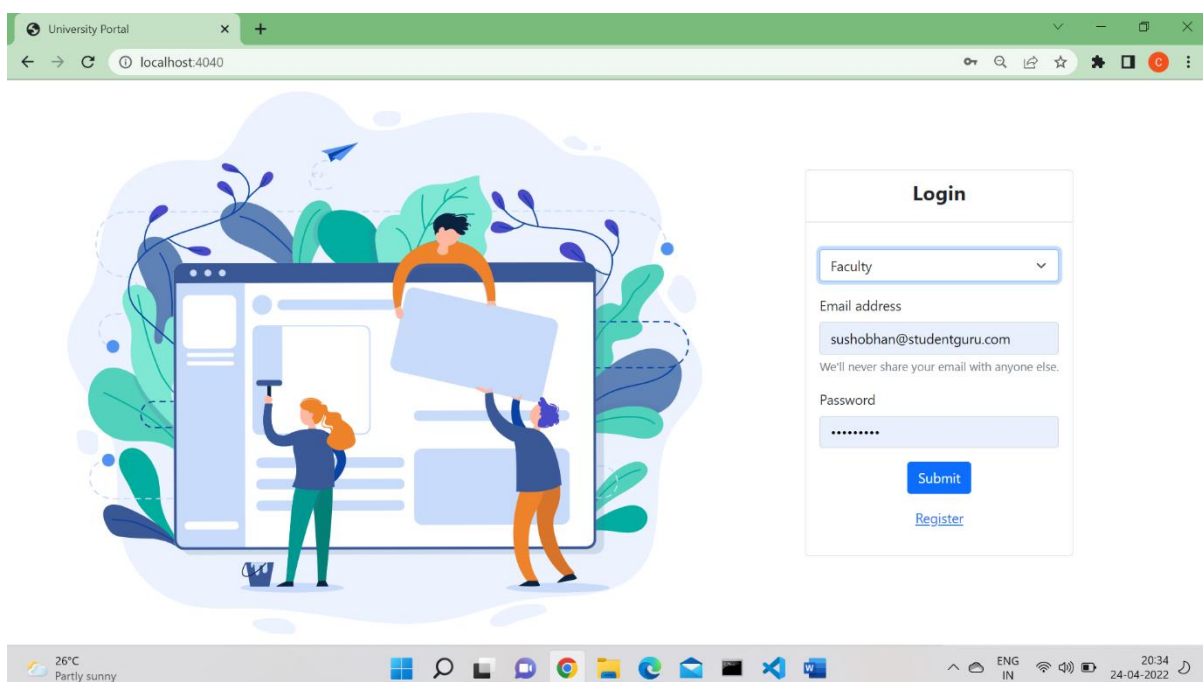
26°C Partly sunny

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We also have the logout option for the student login.



When the user clicks on the loan details, he gets the details like loan amount. Bank id, bank name and bank email.



If the faculty wants to login, they have to enter their email and password and also select the dropdown as faculty.

The screenshot shows a web browser window titled "University Portal" with the URL "localhost:4040/FDashboard". A "logout" button is in the top left. The main content area is divided into two columns. The left column features a profile card for "sushobhan" with a circular avatar of a woman with glasses, "Faculty ID: 1", and "Email: sushobhan@studentguru.com". The right column displays a list of questions submitted by students, each with a collapse/expand arrow. The questions are: "Q . I have very much interest in maths and physic, Which stream should i apply?", "Q . I have very good knowledge in Biology which steam should i apply?", "Q . I am interested in social science, which stream should i apply?", "Q . I am good at chemistry, which stream should i apply", "Q . When can I start my Internship", and "Q . How many credits do I need to complete my course?". Below the questions is a section titled "Not Answered Yet" containing a question "Q . What are the subjects am I allowed to take next semester?" and an "Add Answer" button. The bottom of the browser window shows a Windows taskbar with a weather widget (26°C, Partly sunny), system icons, and the date/time (20:34, 24-04-2022).

We will get the faculty details and also the questions answered by the faculty and also the questions that need to be answered.

The screenshot shows a web browser window titled "University Portal" with the URL "localhost:4040/registration". The page features a large, stylized illustration of a laptop displaying a website with a DNA helix and a laboratory flask, surrounded by green leaves and blue flowers. To the right of the illustration is a "Register" form with the following fields: "Full Name" (with a placeholder "Full Name"), "Email address" (with a placeholder "Username" and a note "We'll never share your email with anyone else."), "Student Id" (with a placeholder "Student Id"), "Mobile Number" (with a placeholder "Mobile Number"), and "Password" (with a placeholder "Password"). A blue "Submit" button is at the bottom of the form. The bottom of the browser window shows a Windows taskbar with a weather widget (26°C, Partly sunny), system icons, and the date/time (20:34, 24-04-2022).

Here is the register option where a new student can register in to the portal by giving their details.

The screenshot shows the MySQL Workbench interface. The query editor contains the SQL statement `select * from student;`. The result grid displays the following data:

student_id	name	email	password	mobile_id
1	Chandhu	Chandhu@studentguru.com	123456789	19
2	Akhil	Akhil@studentguru.com	123456789	20

The Action Output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
1	14:34:51	select * from student LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Here is the table of the student where it stores the details of the student and also the newly registered student.

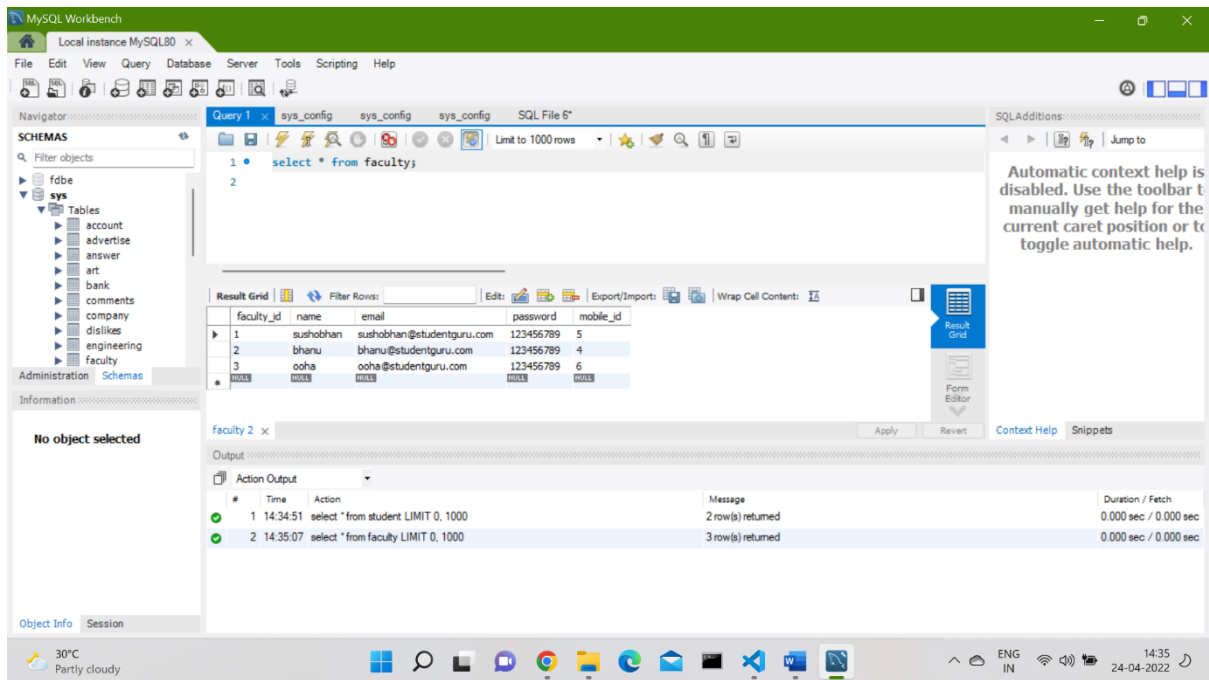
The screenshot shows the MySQL Workbench interface. The query editor contains the SQL statement `select * from queries;`. The result grid displays the following data:

query_id	title	description	domain	date	student_id	faculty_id
1	MPC	I have very much interest in maths and physic, ...	engineering	2022	1	1
2	biology	I have very good knowledge in Biology which st...	Medical	2022	2	1
3	social	I am interested in social science, which stream s...	social science	2022	3	1
4	chemistry	I am good at chemistry, which stream should i a...	chemistry	2022	2	1
12		When can I start my Internship	Internship	2022	1	1
13		How many credits do I need to complete my cou...	Credits	2022	1	1

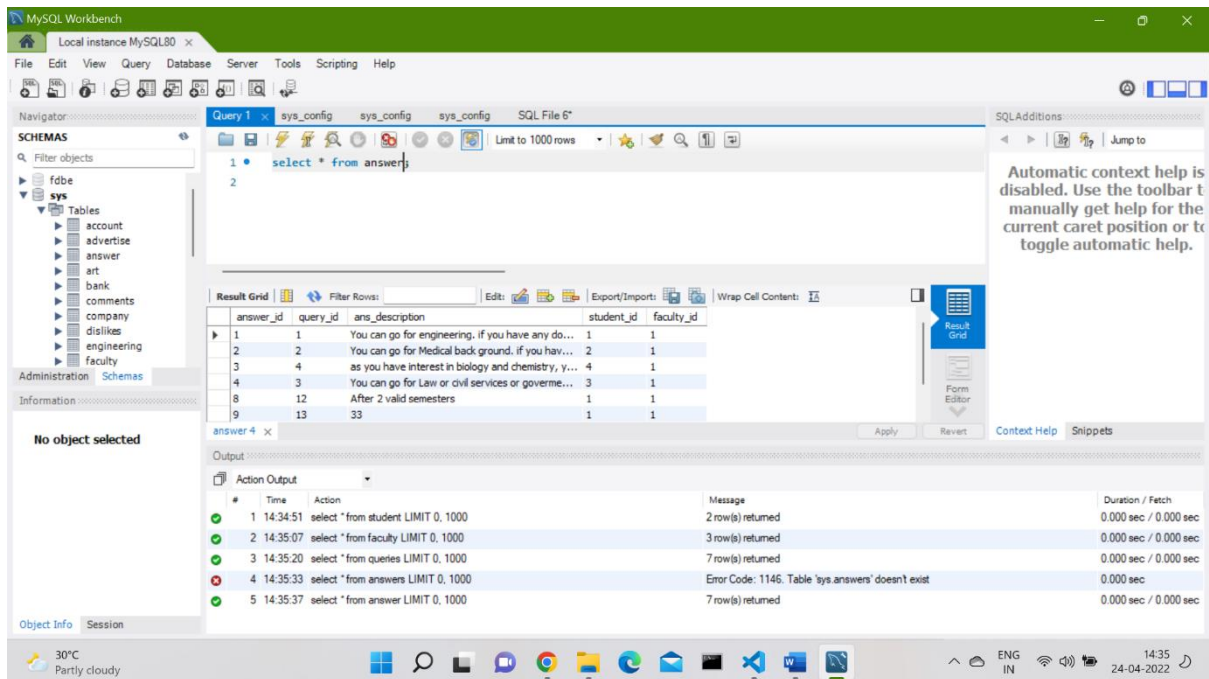
The Action Output pane shows the execution details for three queries:

#	Time	Action	Message	Duration / Fetch
1	14:34:51	select * from student LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
2	14:35:07	select * from faculty LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
3	14:35:20	select * from queries LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

When the student asks a query to the professor, all the details are stored in it.



The professor details are stored in the faculty table.



When the professor answers to the question of the student then this table will store the answer details.

MySQL Workbench interface showing the 'internship' table data. The query editor contains the SQL statement: `select * from internship;`. The result grid displays the following data:

internship_id	domain	company_id	student_id	company	company_email
1	software	123	1	amazon	intern@amazon.com
2	datascience	124	2	NTT Data	intern@nttdata.com

The output pane shows the execution of the query, indicating that 2 row(s) were returned.

The above table stores the details of the internship of the student.

MySQL Workbench interface showing the 'loan' table data. The query editor contains the SQL statement: `select * from loan;`. The result grid displays the following data:

loan_id	amount	student_id	bank_id
1	1500000	1	1
2	1000000	2	2

The output pane shows the execution of the query, indicating that 2 row(s) were returned.

The loan table stores the details of the loan taken by the student.

The screenshot shows the MySQL Workbench interface. The 'Query 1' tab is active, displaying the SQL query: `select * from bank;`. The 'Result Grid' shows the following data:

bank_id	name	email	mobile_id	student_id
1	SBI	sbi@studentguru.com	19	1
2	American	american@studentguru.com	20	2

The 'Action Output' pane at the bottom shows the execution log, including the message: '7 row(s) returned'.

The bank tables stores the details of the bank, from which the student has taken the loan.

The screenshot shows the MySQL Workbench interface. The 'Query 1' tab is active, displaying the SQL query: `select * from company;`. The 'Result Grid' shows the following data:

company_id	name	email	mobile
3	Jfinance	jfinance@studentguru.com	9000030000
123	Engg solutions	enggsolutions@studentguru.com	9000010000
124	Ooha Hospitals	oohahospital@studentguru.com	9000020000

The 'Action Output' pane at the bottom shows the execution log, including the message: '3 row(s) returned'.

The company table stores the details of the company where the student is doing his internship.