IT 3003 - Advanced Programming Techniques

Student Database App Mini project

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Console-based Java application to manage students:

- Add student

- Update student

- Delete student

- View student by id

- List all students

Exit

Result

Add Student

id	name	email	phone	dob	created_at
1	Shenal Wickramasinghe	rashmikashenal123@gmail.com	0761234567	2001-05-09	2025-09-02 10:12:28
NULL	NULL	NULL	NULL	NULL	NULL

Update Student

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

Existing: Student{id=1, name='Shenal Wickramasinghe', email='rashmikashenal123@gmail.com', phone='0761234567', dob=2001-05-09}
New name (leave blank to keep): Shenal Wickramasinghe
New email (leave blank to keep): rashmikashenal225@gmail.com
New phone (leave blank to keep):
New DOB (YYYY-MM-DD) (leave blank to keep/remove):
Student updated.

id	name	email	phone	dob	created_at
1	Shenal Wickramasinghe	rashmikashenal225@gmail.com	0761234567	2001-05-09	2025-09-02 10:12:28
NULL	NULL	NULL	NULL	NULL	NULL

Delete Student

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

-- Delete student --
Enter student id to delete: 1
About to delete: Student{id=1, name='Shenal Wickramasinghe', email='rashmikashenal225@gmail.com', phone='0761234567', dob=20
Are you sure? (y/N): y
Deleted.

Menu:

Query 1   studentdb - Schema   students - Table   students   students ×

Limit to 1000 rows

```
1  SELECT * FROM studentdb.students;
```
Execute the selected portion of the script or everything, if there is no selection

id	name	email	phone	dob	created_at
NULL	NULL	NULL	NULL	NULL	NULL

View Student by id

```
Menu:
1. Add student
2. Update student
3. Delete student
4. View student by id
5. List all students
6. Exit
Enter choice: 4

-- View student --
Enter student id: 2
Student{id=2, name='Shenal Wickramasinghe', email='rashmikashenal225@gmail.com', phone='0761234567', dob=2001-05-09}
```
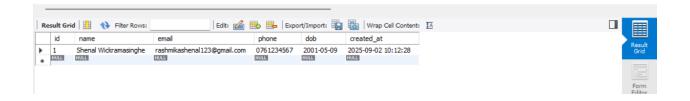
List all Students

```
Menu:
1. Add student
2. Update student
3. Delete student
4. View student by id
5. List all students
6. Exit
Enter choice: 5

-- All students --
Student{id=2, name='Shenal Wickramasinghe', email='rashmikashenal225@gmail.com', phone='0761234567', dob=2001-05-09}
```