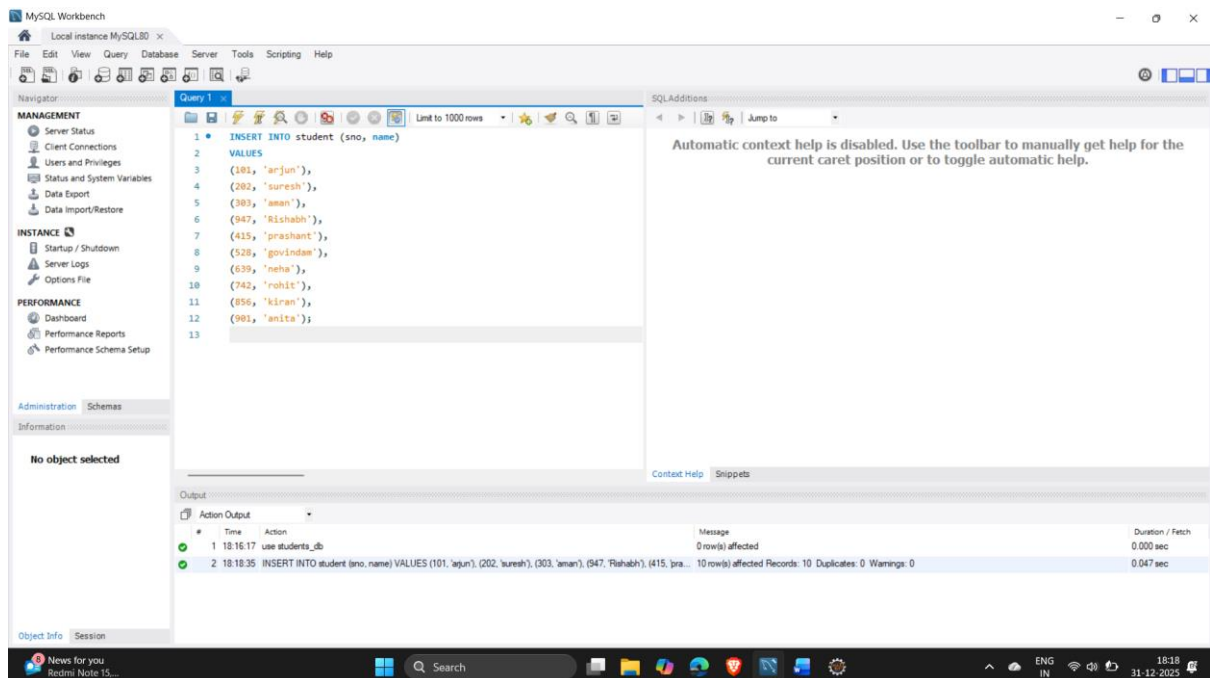
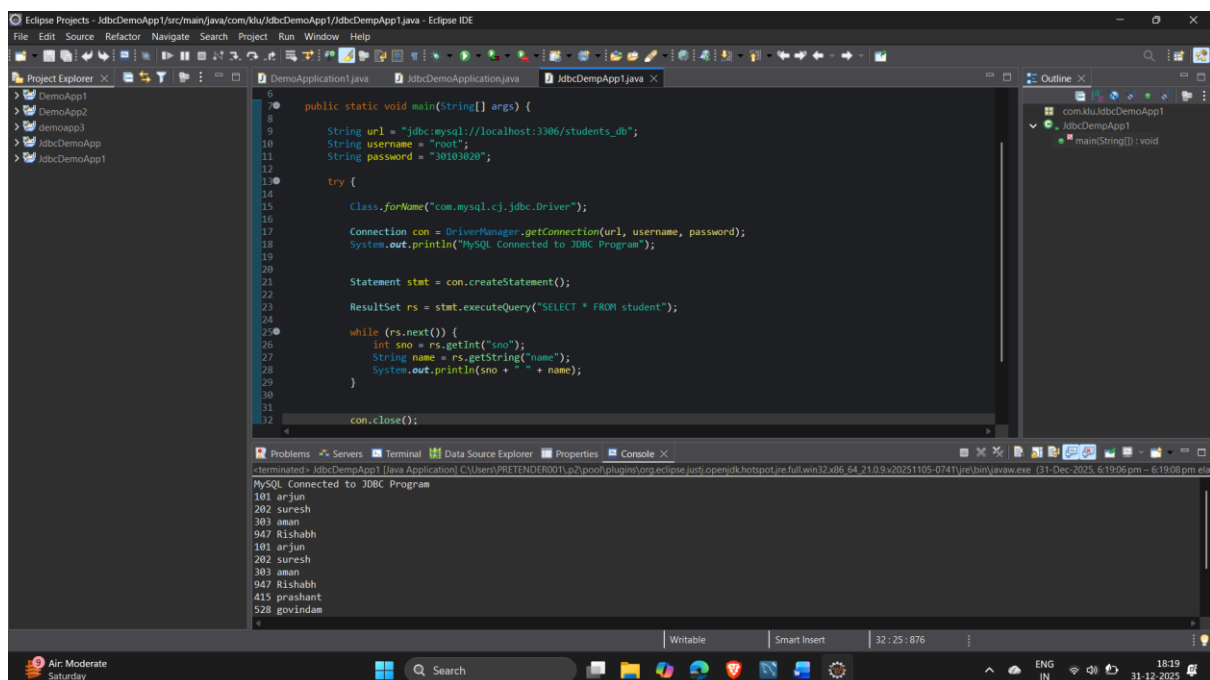


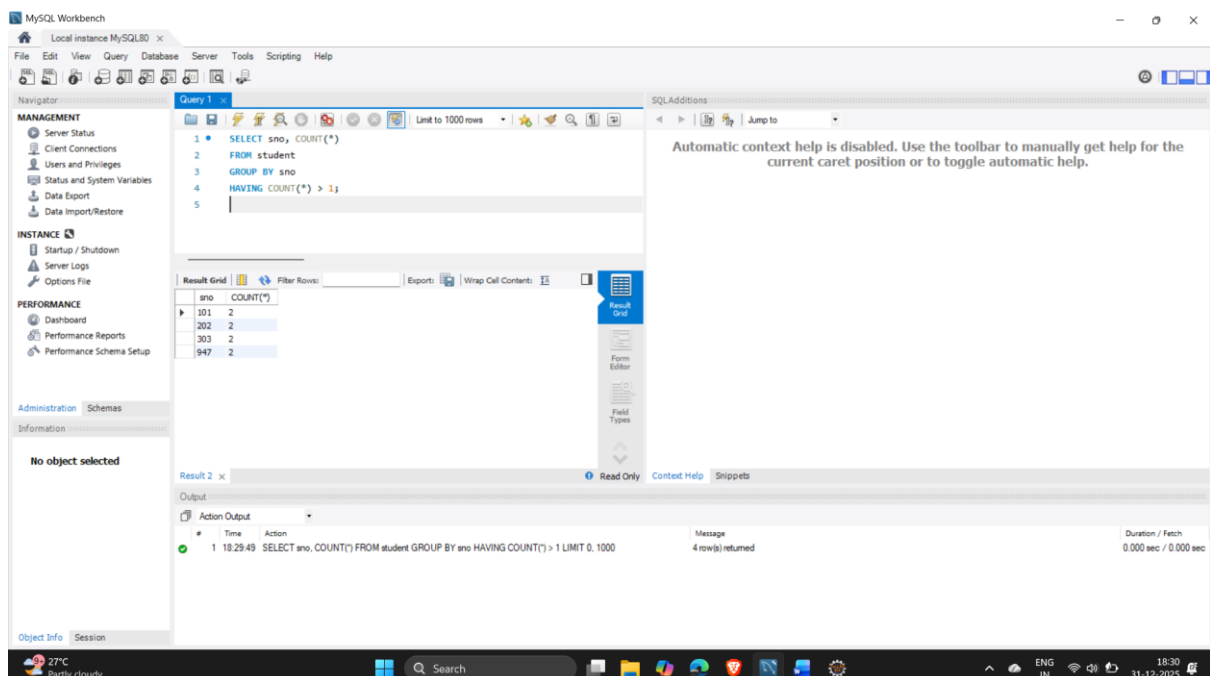
Inserting Values in table student



Now run as - java application



Query for finding duplicates



MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

Query 1

```
1 SELECT * FROM student WHERE sno = 101;
```

Result Grid

sno	name
101	arjun
101	arjun

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

student 3

Output

#	Time	Action	Message	Duration / Fetch
1	18:29:49	SELECT sno, COUNT(*) FROM student GROUP BY sno HAVING COUNT(*) > 1 LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
2	18:31:30	SELECT * FROM student WHERE sno = 101 LIMIT 0, 1000	2 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

27°C Partly cloudy

Search

ENG IN

18:31 31-12-2025

Fixing duplicates

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

Query 1

```
1 DELETE FROM student
2 WHERE sno = 101
3 LIMIT 1;
```

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Context Help Snippets

Output

#	Time	Action	Message	Duration / Fetch
1	18:29:49	SELECT sno, COUNT(*) FROM student GROUP BY sno HAVING COUNT(*) > 1 LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
2	18:31:30	SELECT * FROM student WHERE sno = 101 LIMIT 0, 1000	2 row(s) returned	0.016 sec / 0.000 sec
3	18:33:07	DELETE FROM student WHERE sno = 101 LIMIT 1	1 row(s) affected	0.032 sec

Object Info Session

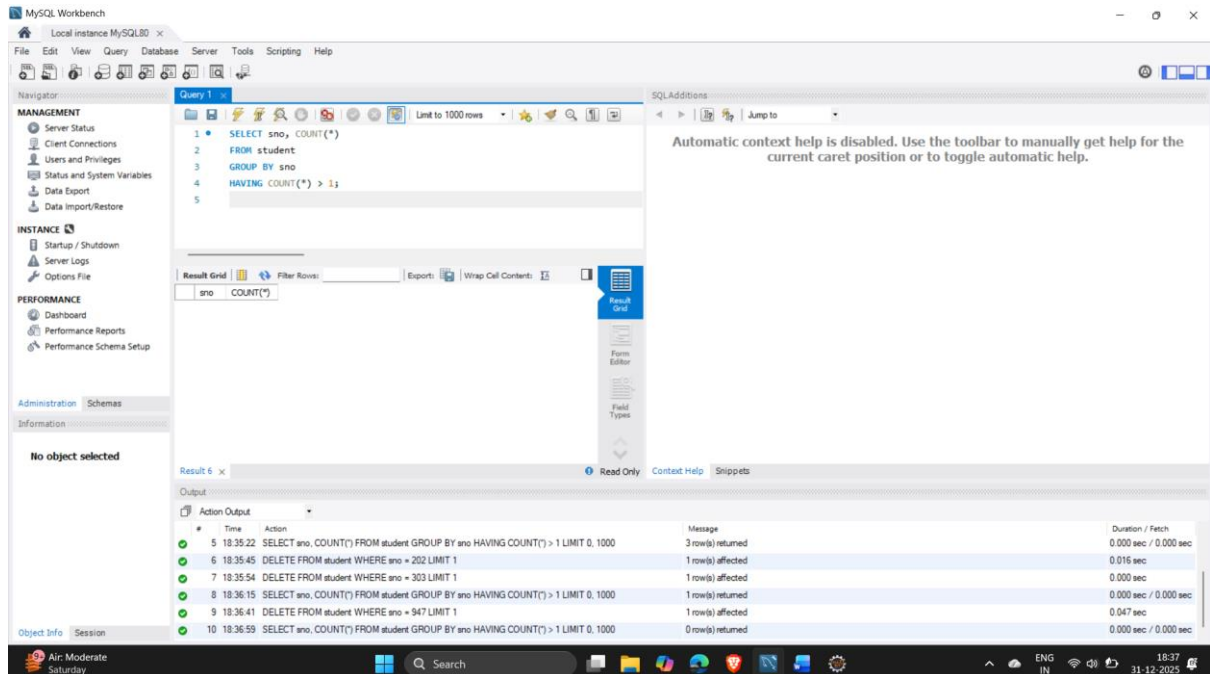
27°C Partly cloudy

Search

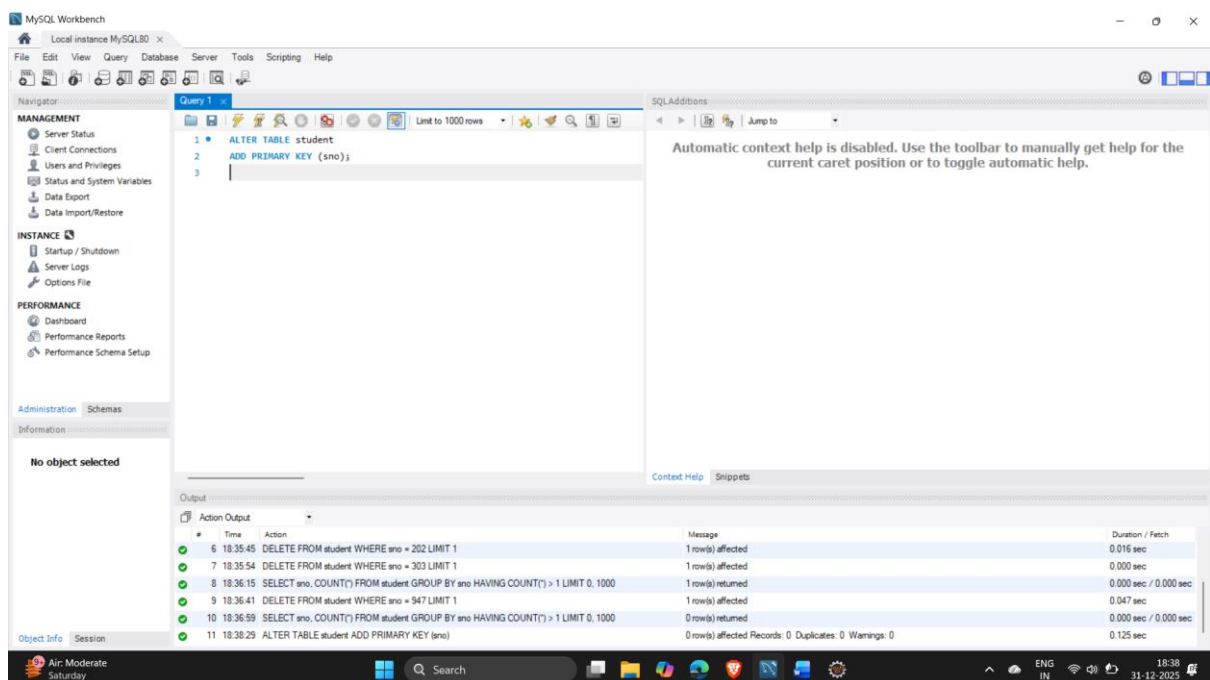
ENG IN

18:33 31-12-2025

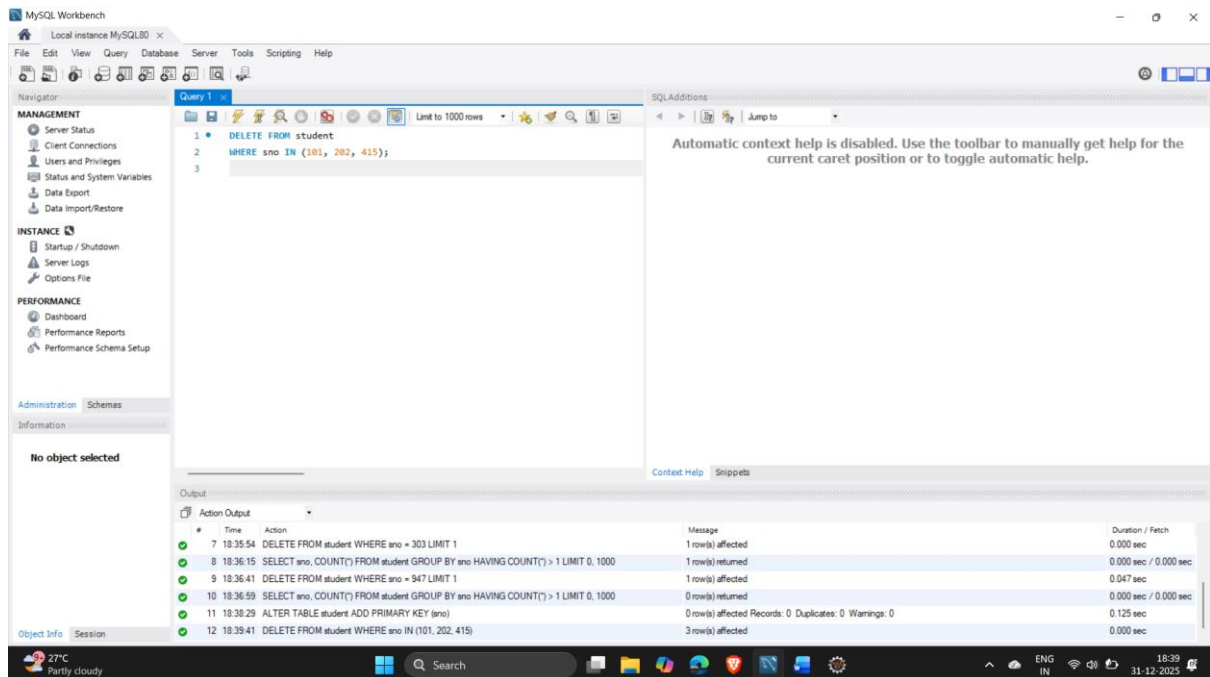
Delete all duplicates one by one like above until you get something like this



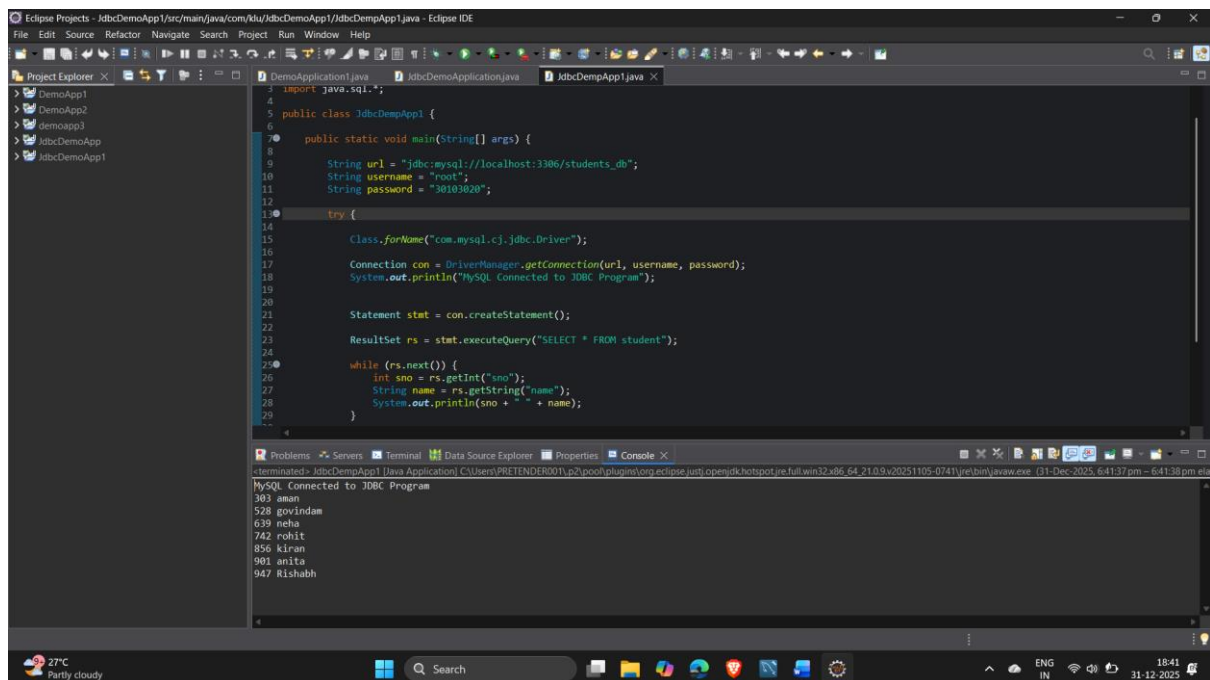
Now add Primary Key(sno)



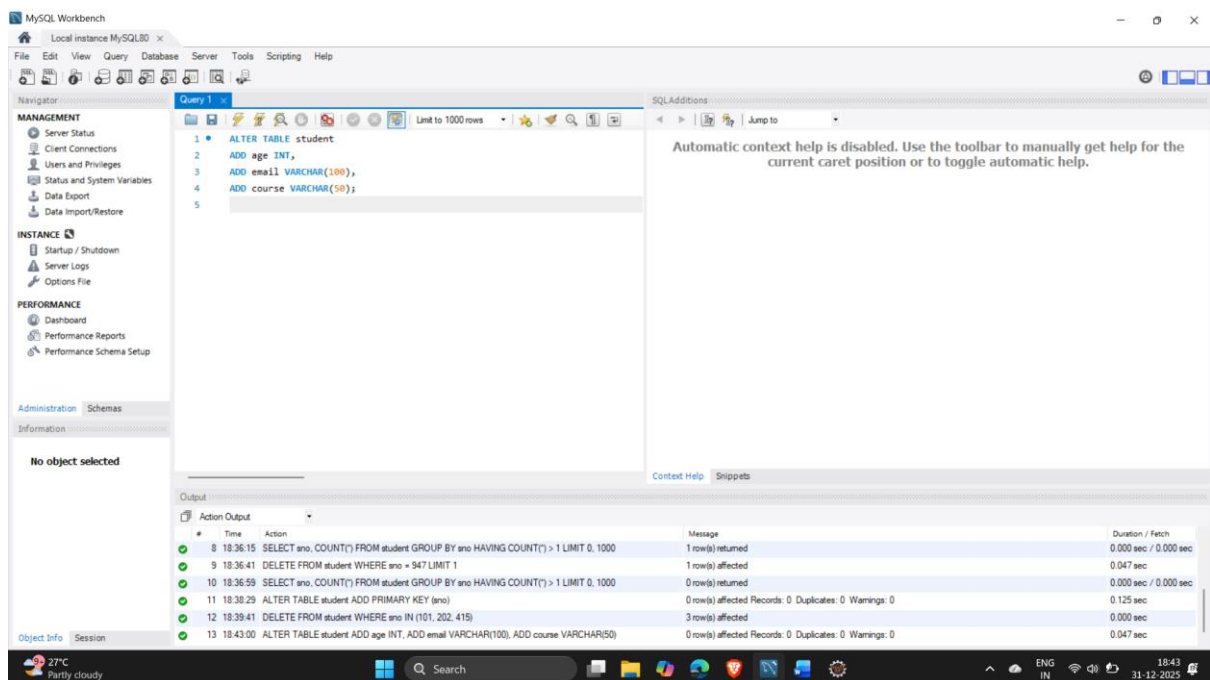
Query for deleting records



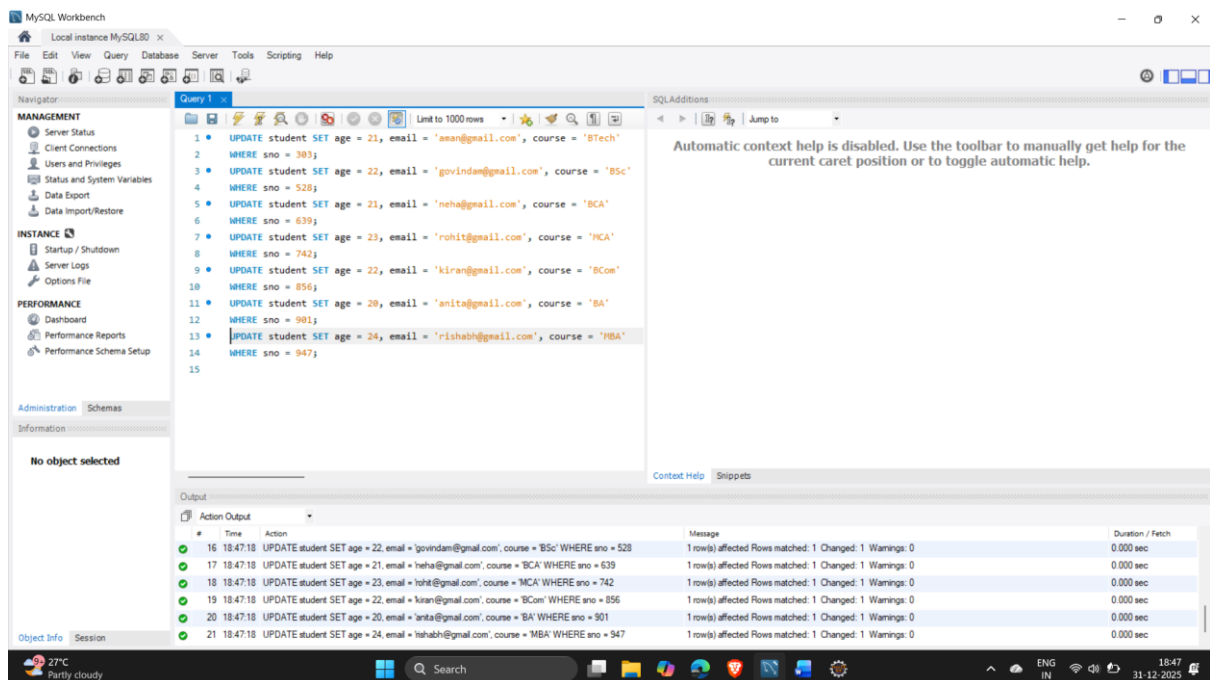
Verify in Eclipse Ide



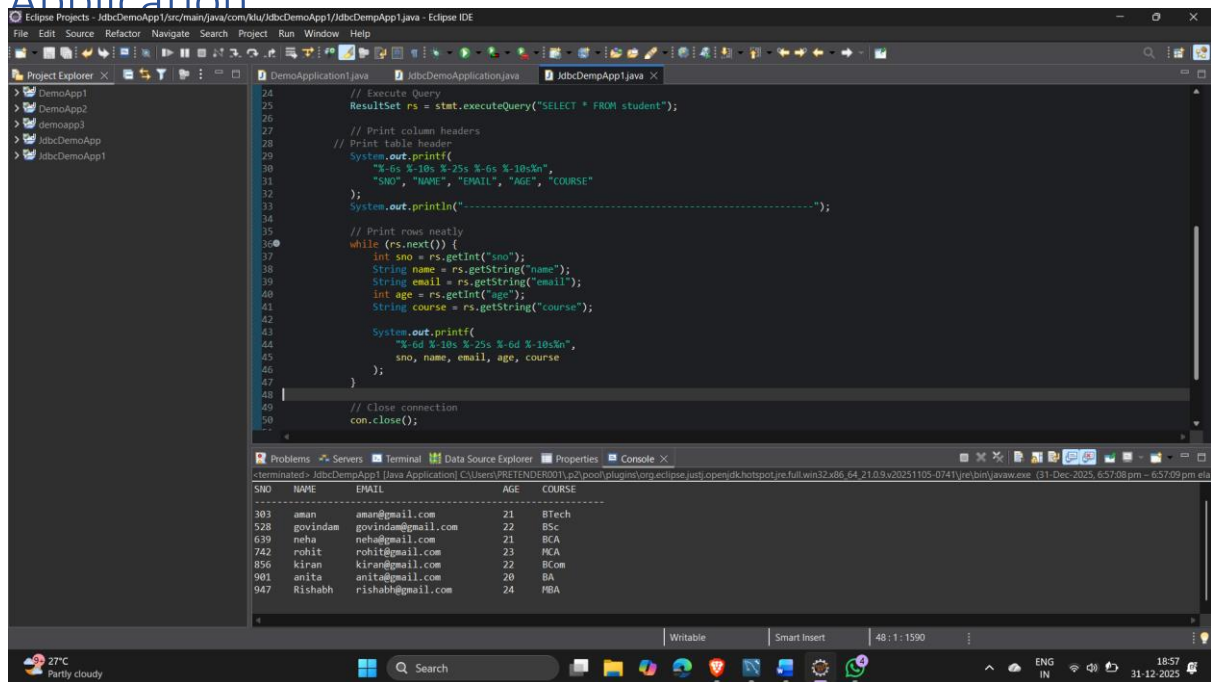
Adding New columns



Update the records



Update the code in Eclipse Ide – Run as – Java Application



The screenshot shows the Eclipse IDE interface. The Project Explorer on the left lists the project structure. The main editor displays the code for `JdbcDemoApp1.java`. The code executes a SQL query to select all records from a table named 'student'. The results are printed to the console in a formatted table.

```
24 // Execute Query
25 ResultSet rs = stat.executeQuery("SELECT * FROM student");
26
27 // Print column headers
28 // Print table header
29 System.out.printf(
30     "%-6s %-10s %-25s %-6s %-10s\n",
31     "SNO", "NAME", "EMAIL", "AGE", "COURSE"
32 );
33 System.out.println("-----");
34
35 // Print rows neatly
36 while (rs.next()) {
37     int sno = rs.getInt("sno");
38     String name = rs.getString("name");
39     String email = rs.getString("email");
40     int age = rs.getInt("age");
41     String course = rs.getString("course");
42
43     System.out.printf(
44         "%-6s %-10s %-25s %-6s %-10s\n",
45         sno, name, email, age, course
46     );
47 }
48
49 // Close connection
50 con.close();
```

The console output shows the following data:

SNO	NAME	EMAIL	AGE	COURSE
303	aman	aman@gmail.com	21	BTech
528	govindan	govindan@gmail.com	22	BSc
639	neha	neha@gmail.com	21	BCA
742	rohit	rohit@gmail.com	23	MCA
856	kirana	kirana@gmail.com	22	BCom
901	anita	anita@gmail.com	20	BA
947	Rishabh	rishabh@gmail.com	24	MBA