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**LAB MANUAL of DATABASE**

**Submitted by: Basit Ali**

**Registration No: S23BSCS012**

**Section: ‘A’**

**Course: Introduction to Database**

**Department: Computer Science**

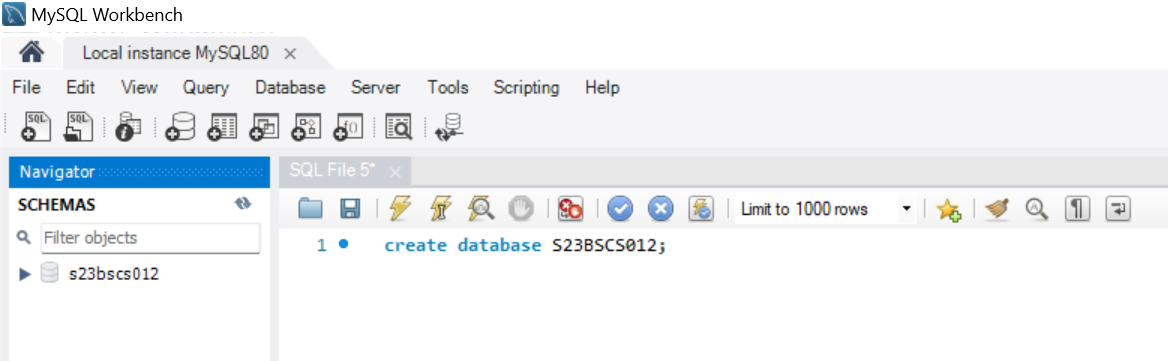
**Submitted to: Sir Irfan Ali**

**Date: 07 December, 2024**

**LAB ASSIGNMENT # 01**

Q#1: Creation of Database (own registration number)

**Query:**

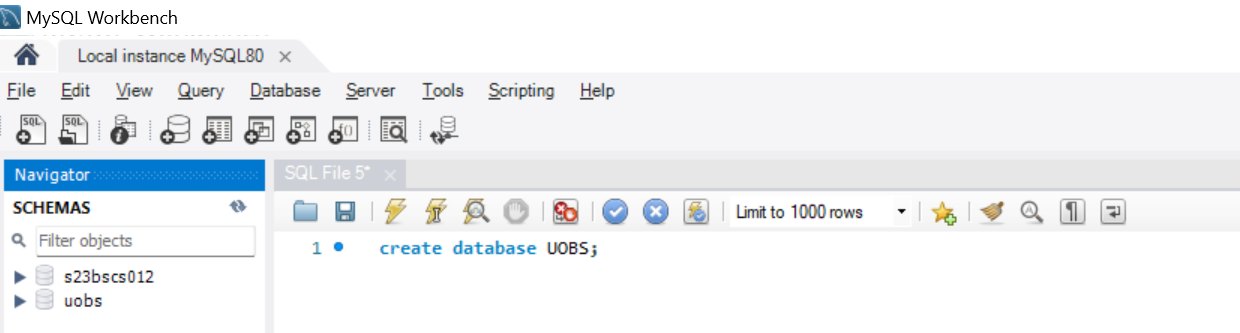
****

**Result:**

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Q#2: Creation of Database (UOBS)

**Query:**

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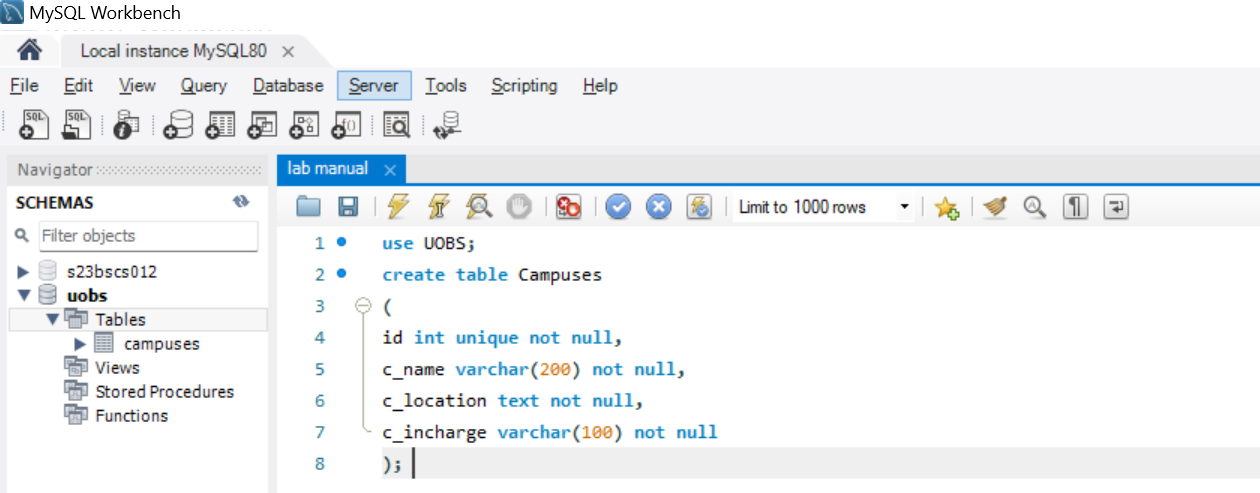
**Result:**

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Q#3Create the following table is UOBS database with the following entities.

1. Campuses (id, c\_name, c\_location, c\_incharge)

**Query:**

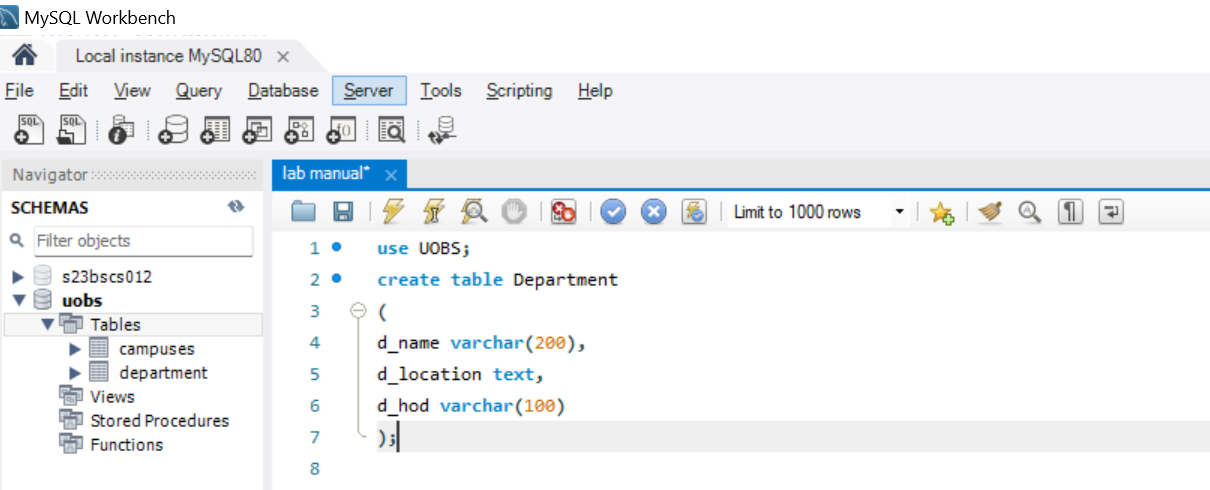
****

**Result:**

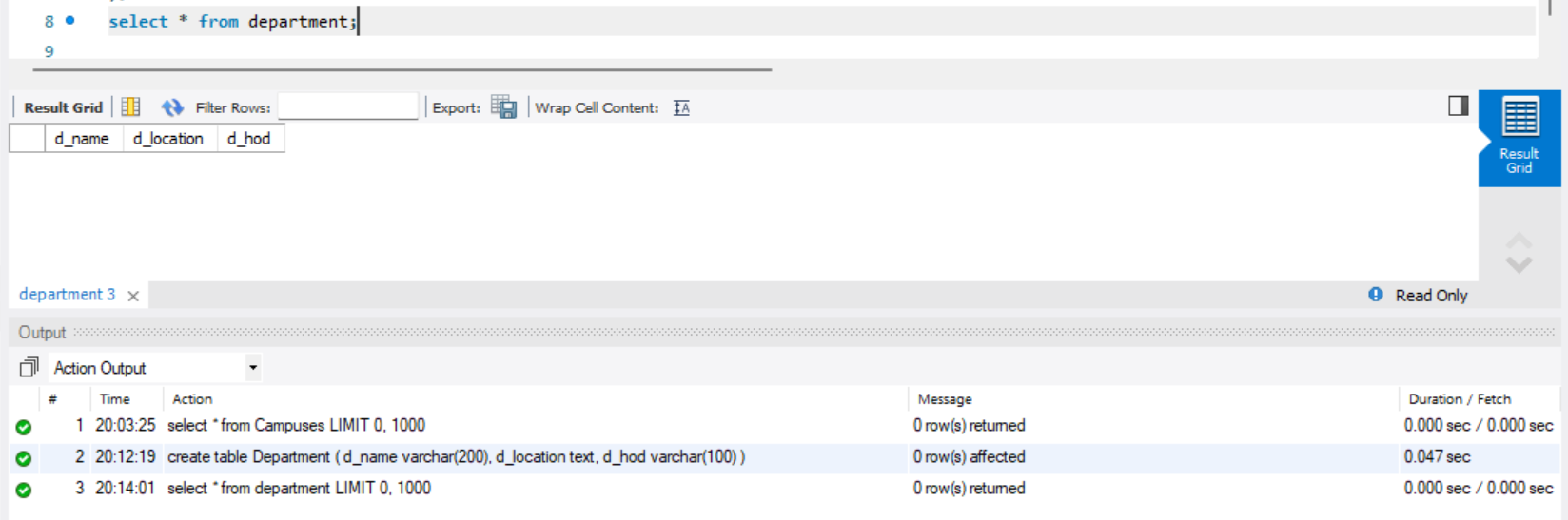
****

1. Department (d\_name, d\_location, d\_hod)

**Query:**

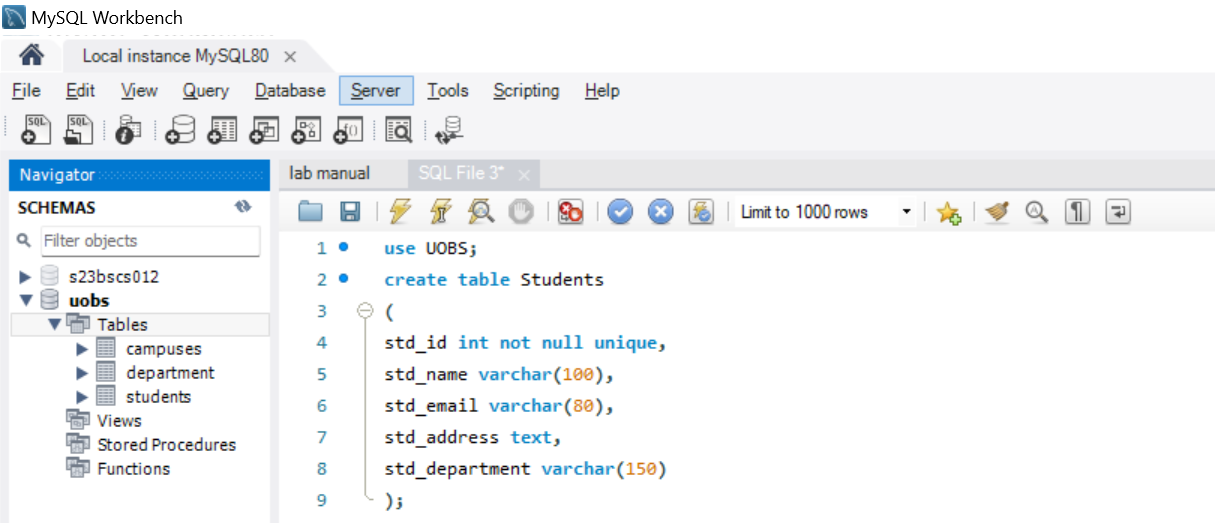
****

**Result:**

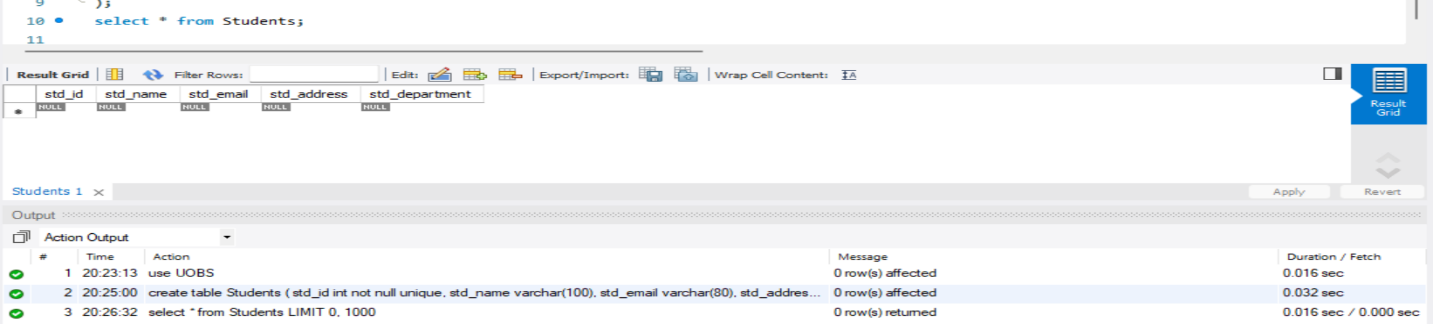
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1. Students (std\_id, std\_name, std\_email, std\_address, std\_department)

**Query:**

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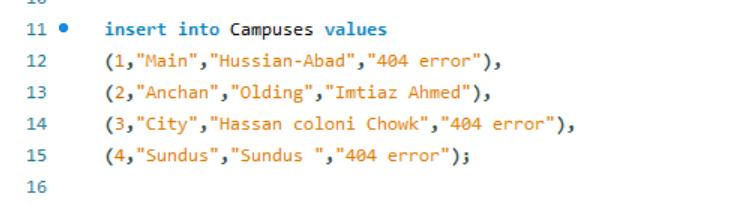
**Result:**

****

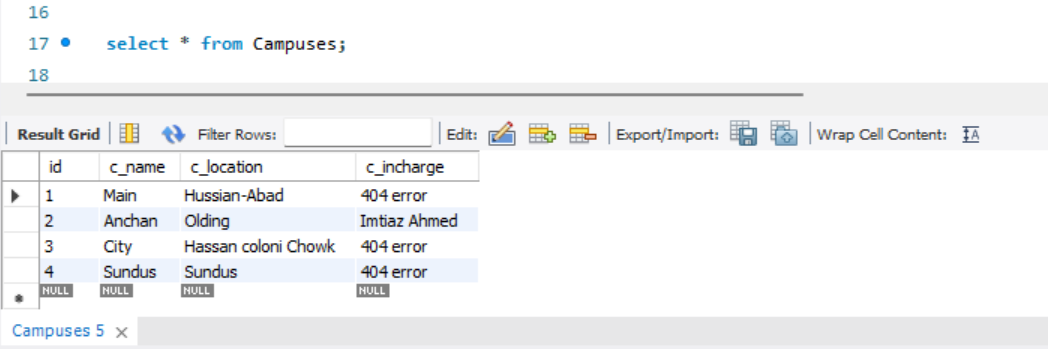
Q#4: Insertion of data into tables (Campuses, department, Students).

1. Campuses (4 names like main, anchan, city, sundus)

**Query:**

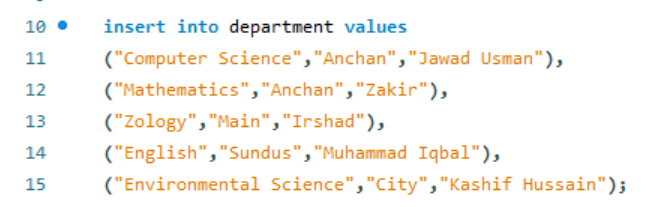
****

**Result:**

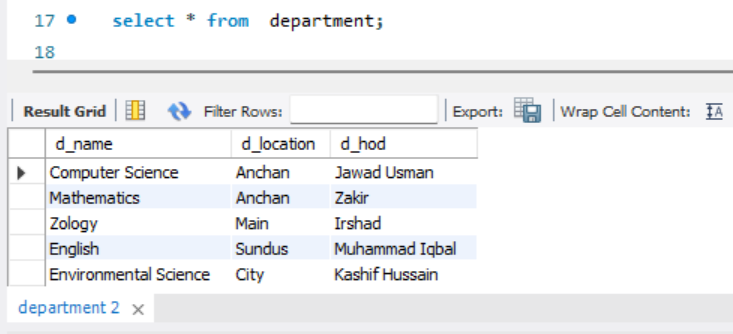
****

1. Department (mention minimum 5 departments)

**Query**:

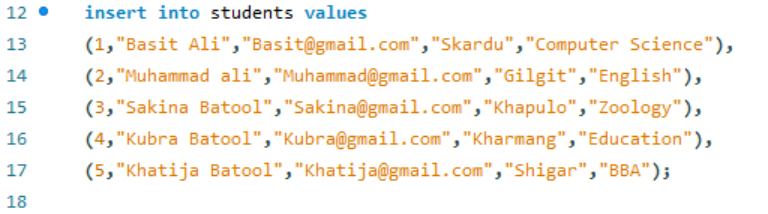


**Result:**

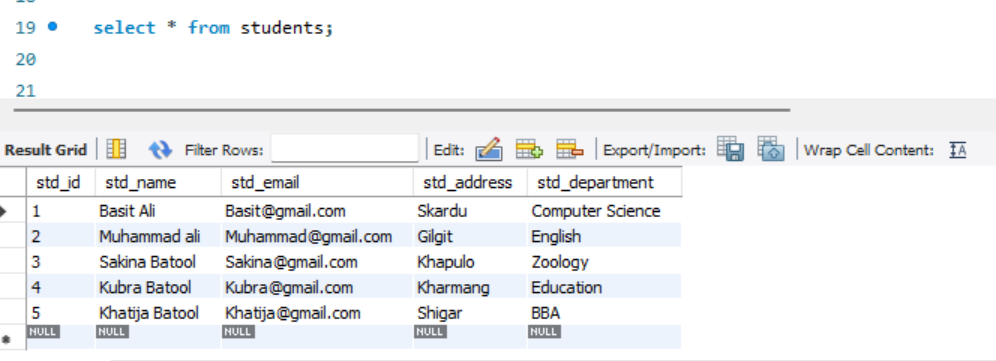
****

1. Students (write 1st student name as your own name and minimum 5 ids)

**Query:**

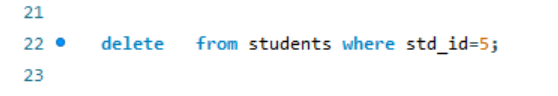
****

**Result:**

****

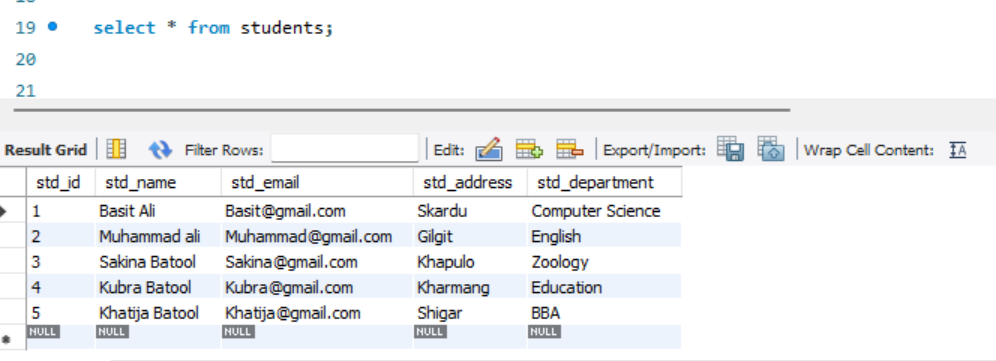
1. Delete Record id=5

**Query:**

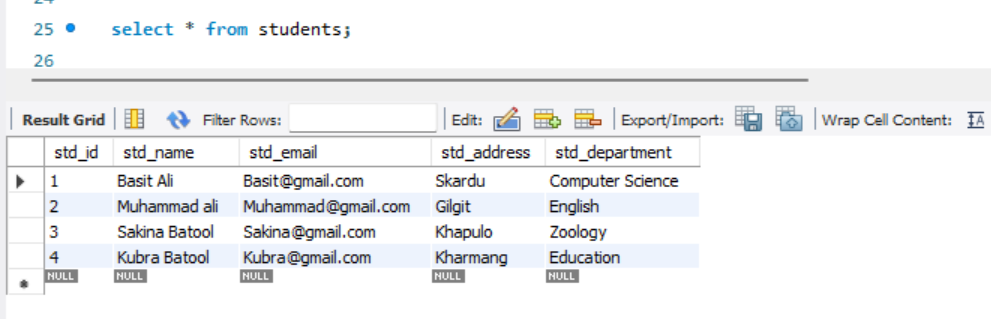
****

**Result:**

**Before:**

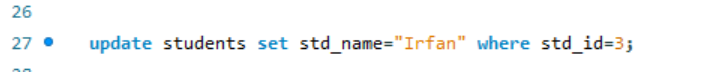
****

**After:**

****

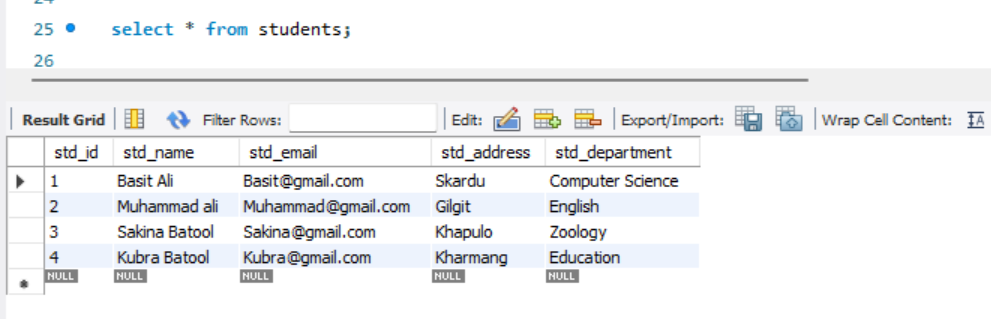
1. Update Record student id=3 with name Irfan

**Query:**

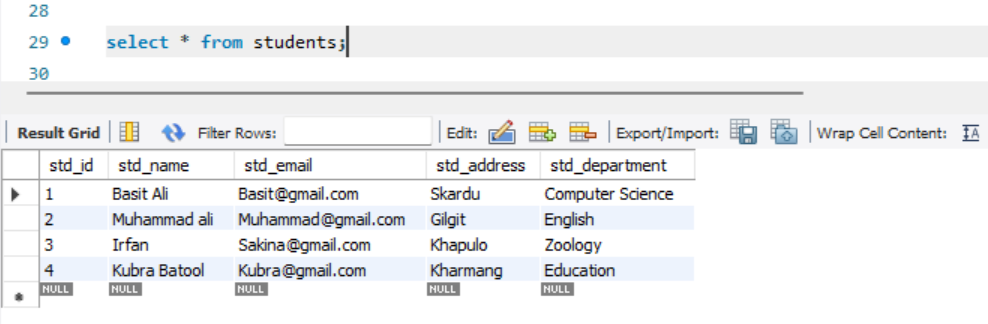
****

**Result:**

**Before:**

****

**After:**

****

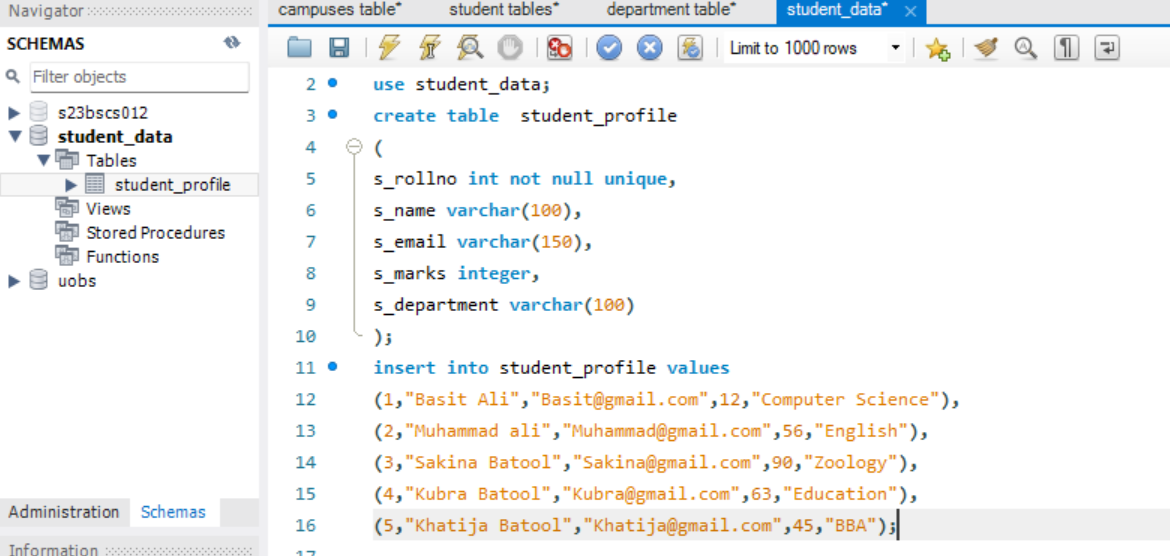
**LAB ASSIGNMENT # 02**

Q#1: Create of Database (student data) and create of table name (student\_profile) in the database of (student data)

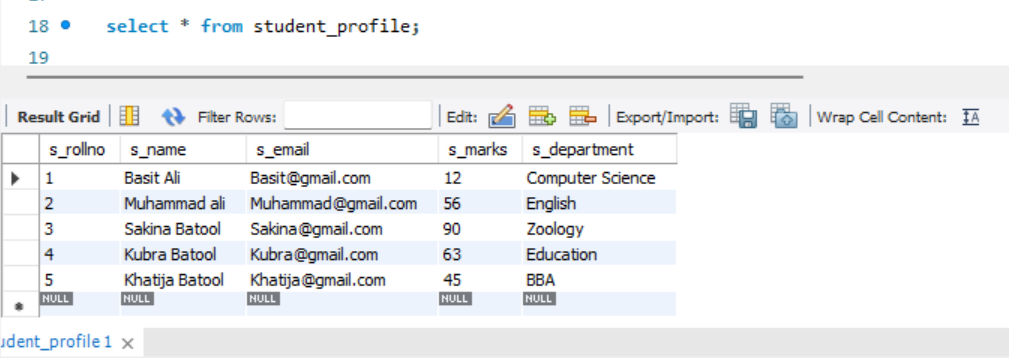
**Entities**

s\_rollno, s\_name, s\_email, s\_marks, s\_department (minimum 5 rows having all department CS)

**Query:**

****

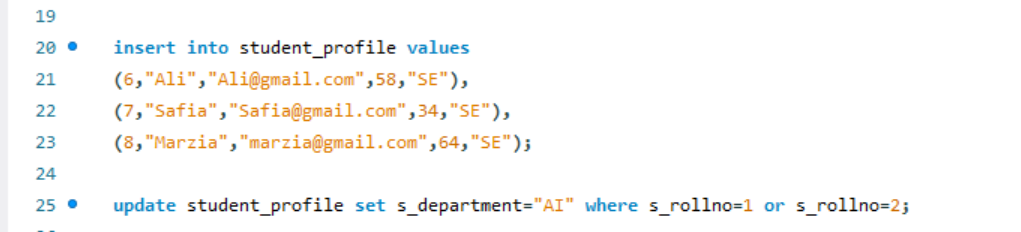
**Result:**

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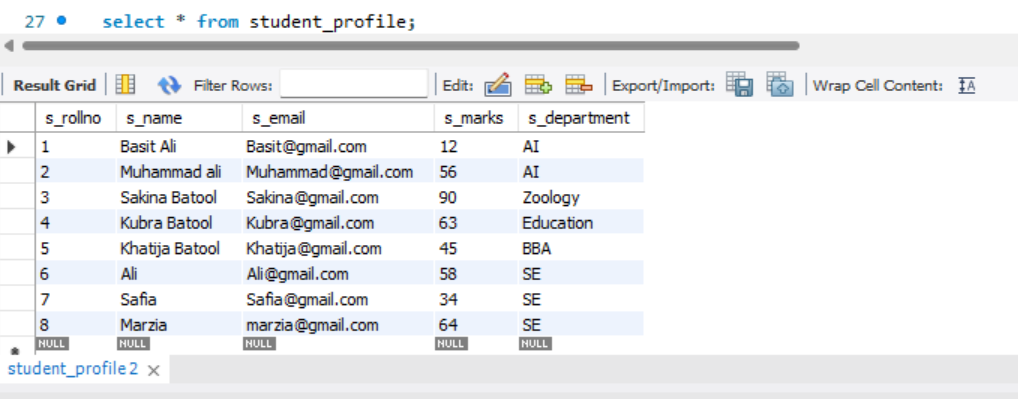
Solve the following queries also:

1. Insert three more records of students from “SE” department in the above table and then update the department of students having roll no. 1 and 2 as “AI” department.

**Query:**

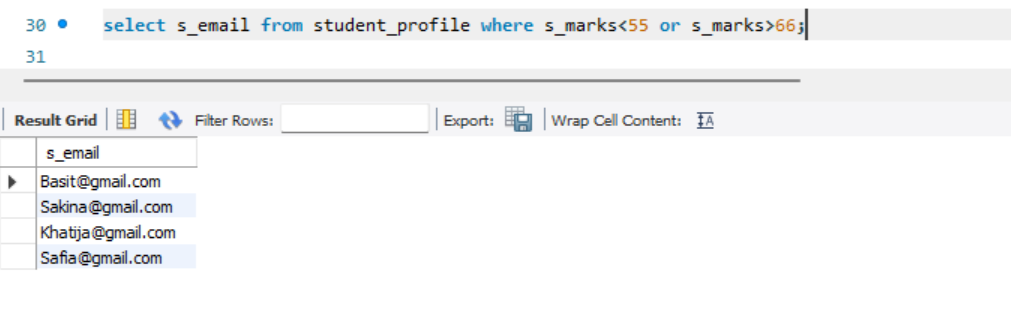
****

**Result:**

****

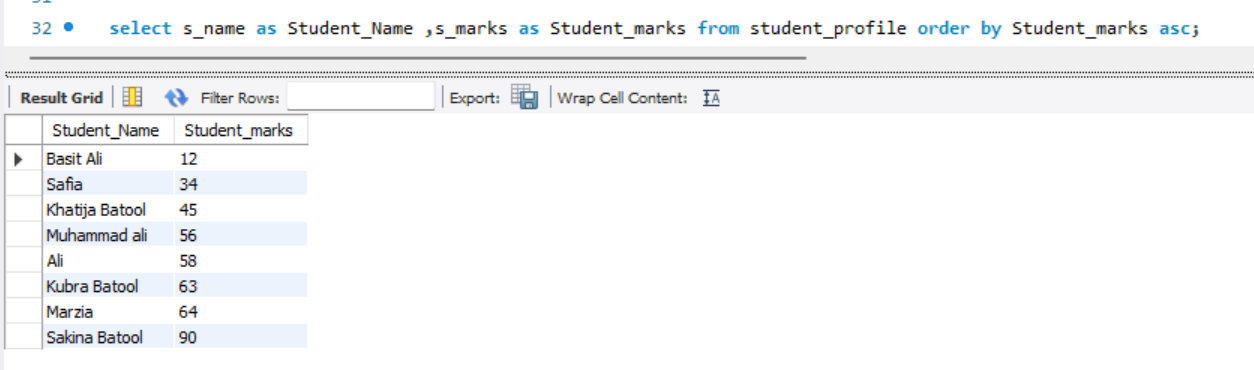
1. Find the email address of those students whose s\_marks are below 55 or above 66.

**Query** and **Result:**

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1. Display the column’s names of those “student\_profil” table s\_name as student name and s\_marks as student marks. The marks should be in ascending order.

**Query** and **Result:**

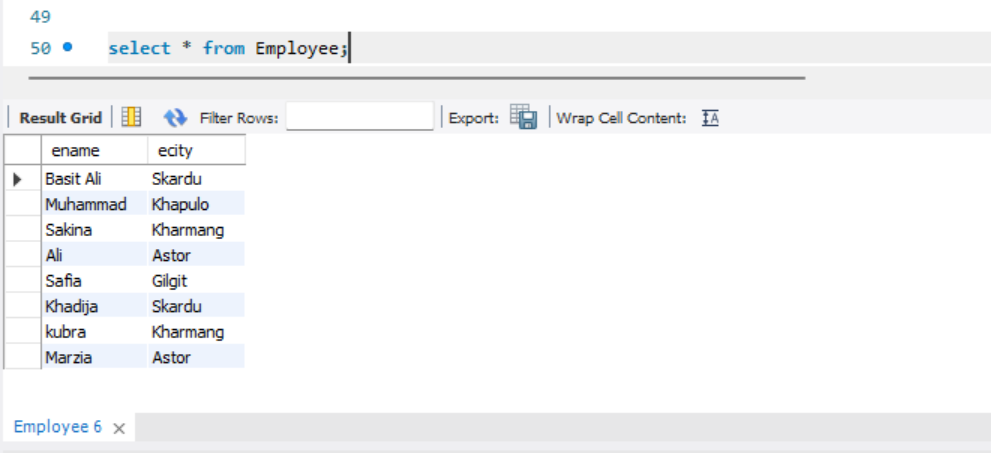
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1. Create a table2 having two columns only “ename” and “ecity” to store a record of 8 employees. Use at least 5 distinct cities in the table.

**Query:**

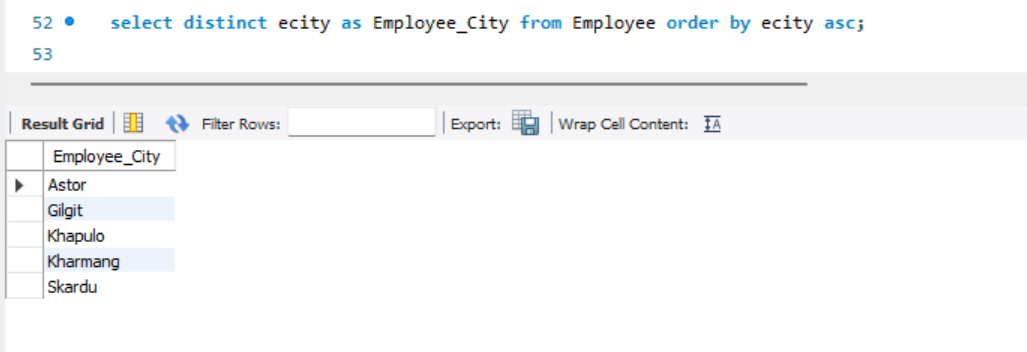
****

**Result:**

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1. Use distinct command to show the list of different cities from employee.

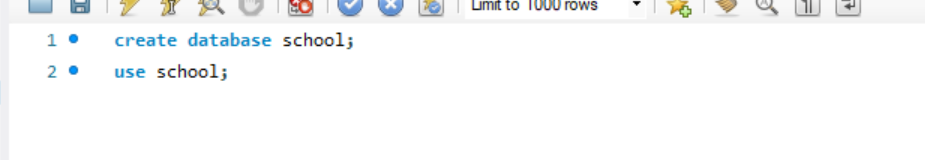
**Query** and **Result:**

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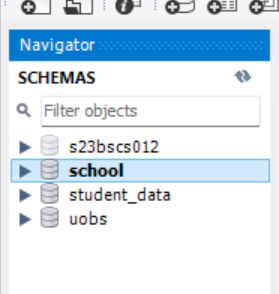
**LAB ASSIGNMENT # 03(Part-1)**

Q#1: Create a database for school.

**Query:**

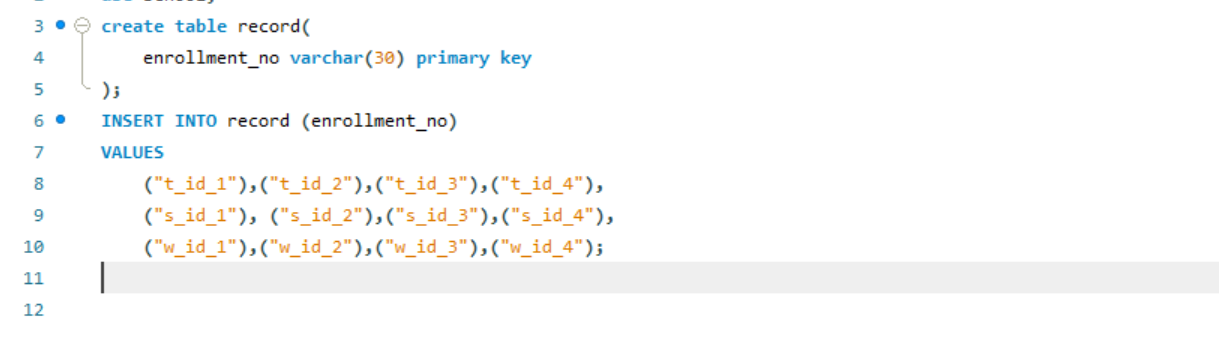
****

**Result:**

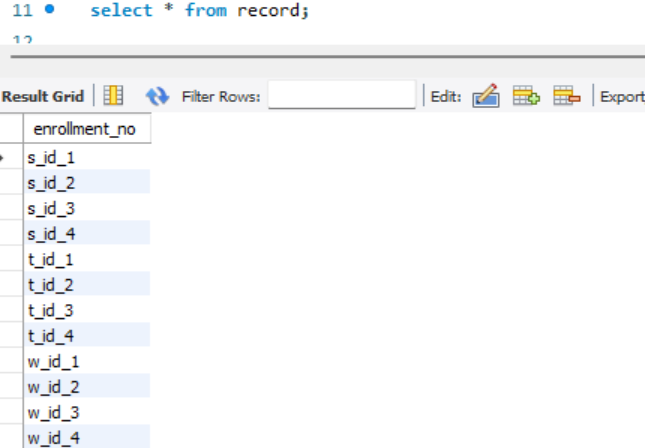
****

Q#2: Create a table(record) in school database and insert values.

**Query:**

****

**Result:**

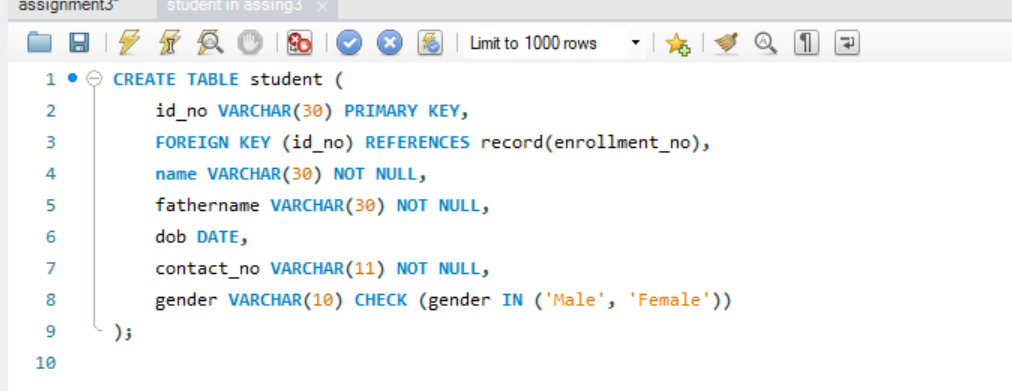
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Q#3: Create student and its related tables (student, s\_fees\_detail, s\_result\_detail, s\_attendance\_detail), insert data into tables and show their result.

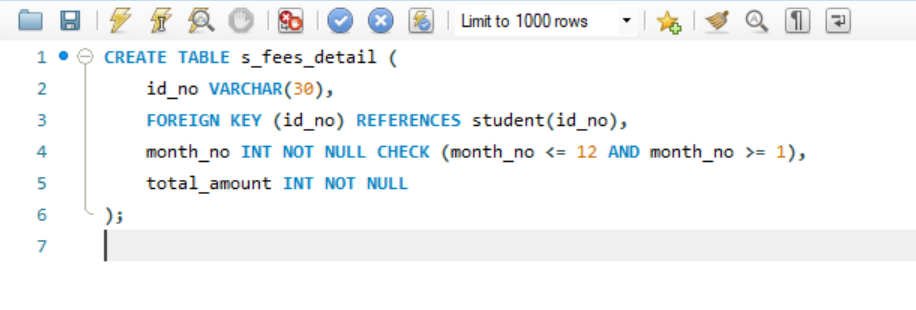
1. Create student and its related tables.

**Queries:**

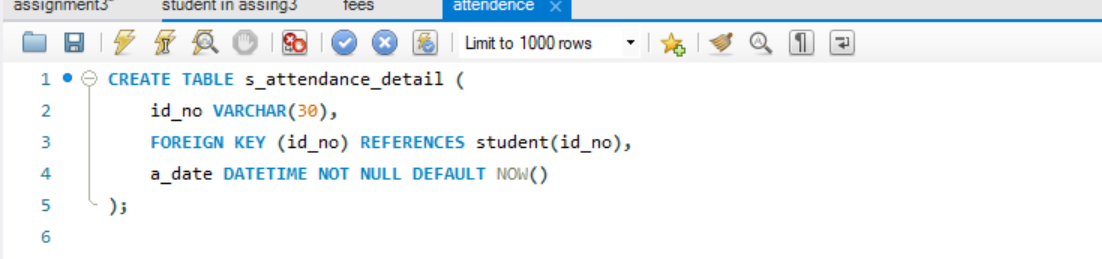
1. Student:



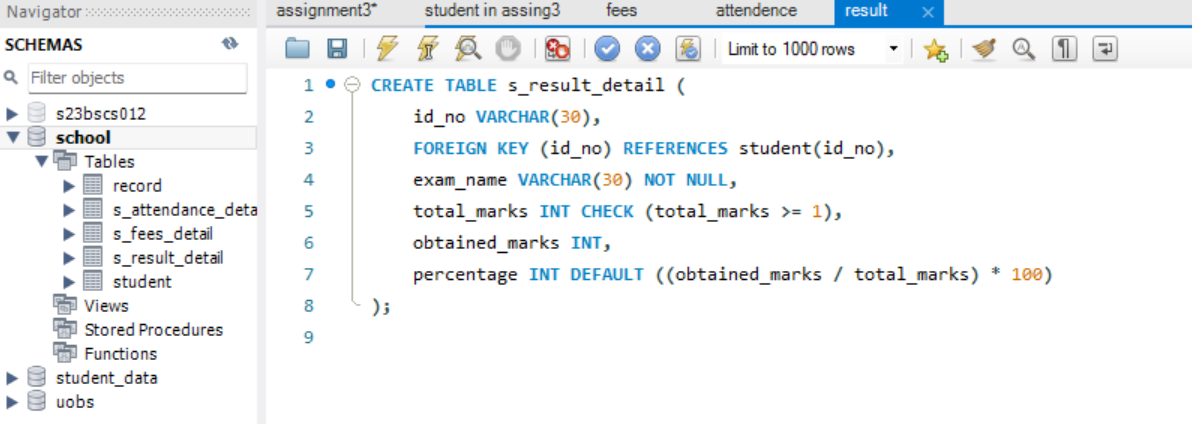
1. Student Fees Detail:



1. Student Attendance Detail:



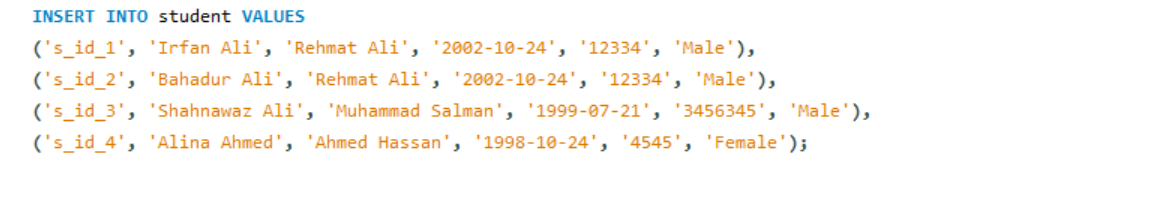
1. Student Result Detail:



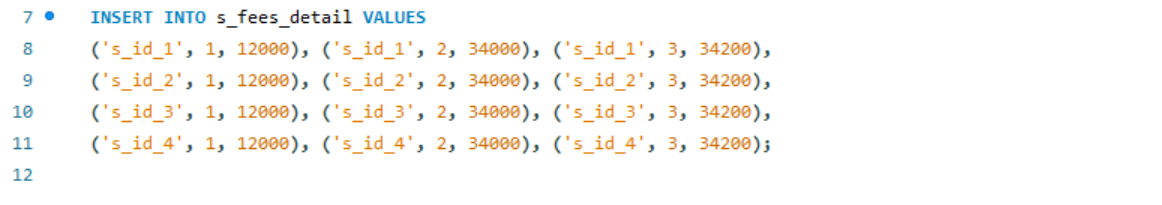
1. Insert data into student and its related tables

**Queries:**

1. Student:



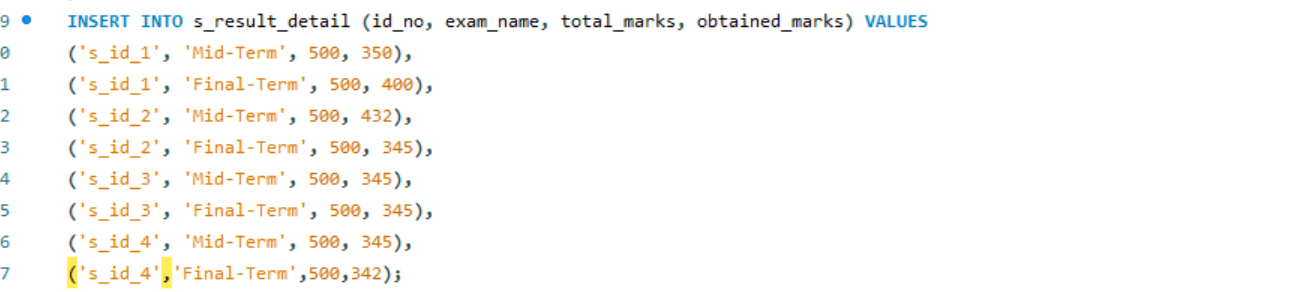
1. Student Fees Detail:



1. Student Attendance Detail:



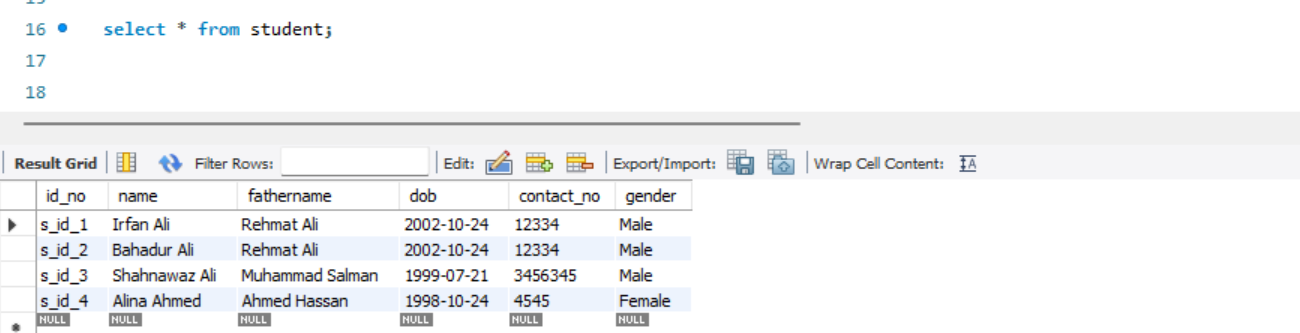
1. Student Result Detail:



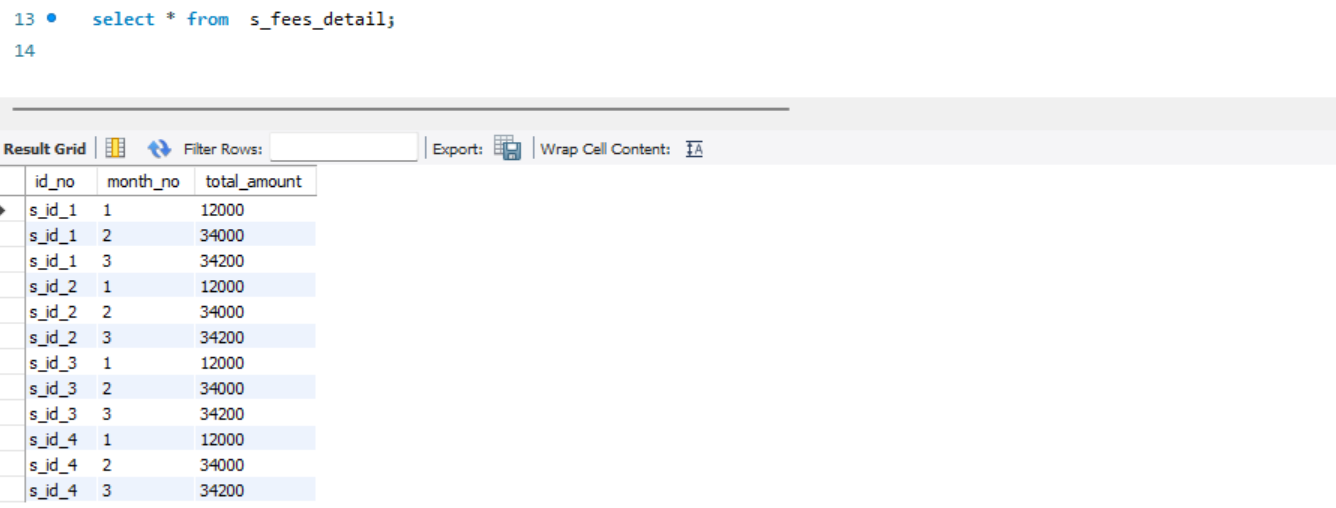
1. Show the result of student and its related table.

**Result:**

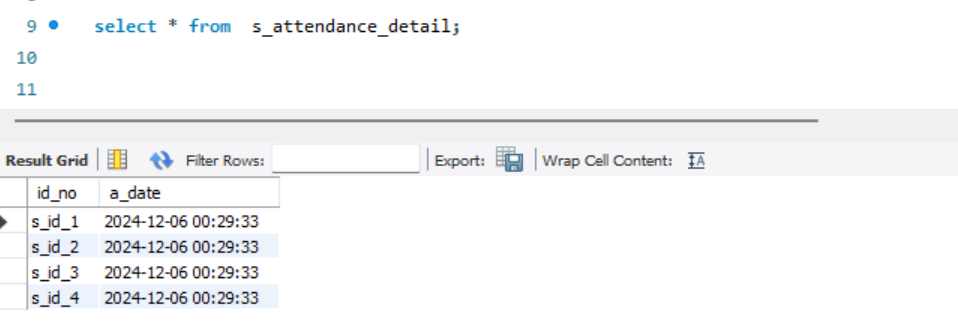
1. Student:



1. Student Fees Detail:



1. Student Attendance Detail:



1. Student Result Detail:

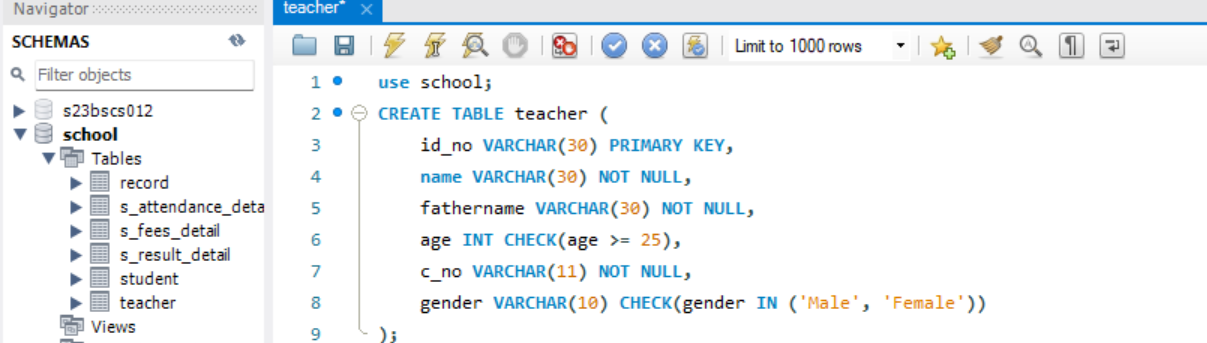


Q#4: Create teacher and its related tables (teacher, t\_salary\_detail, t\_attendance\_detail), insert data into table and show their result.

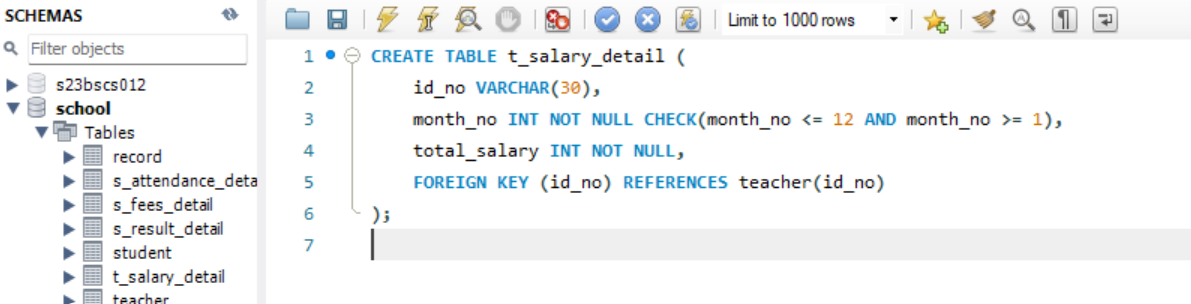
1. Teacher tables

**Queries:**

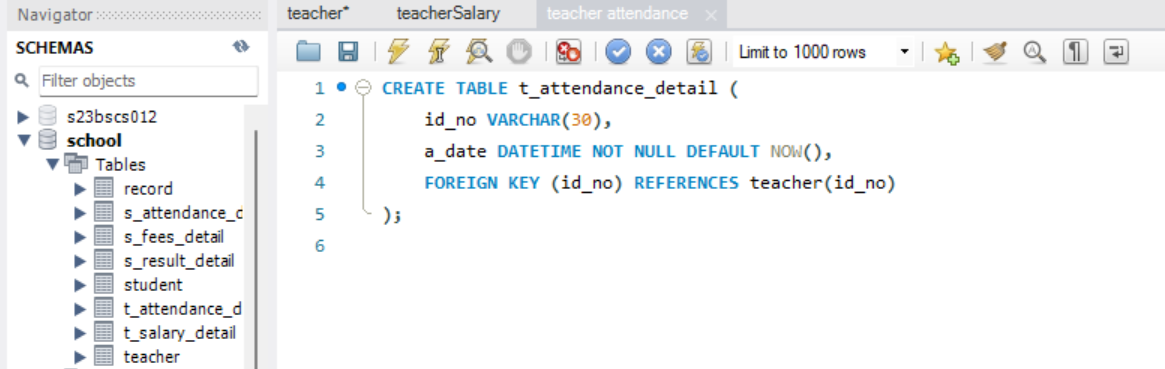
1. Teacher



1. Teacher Salary Detail



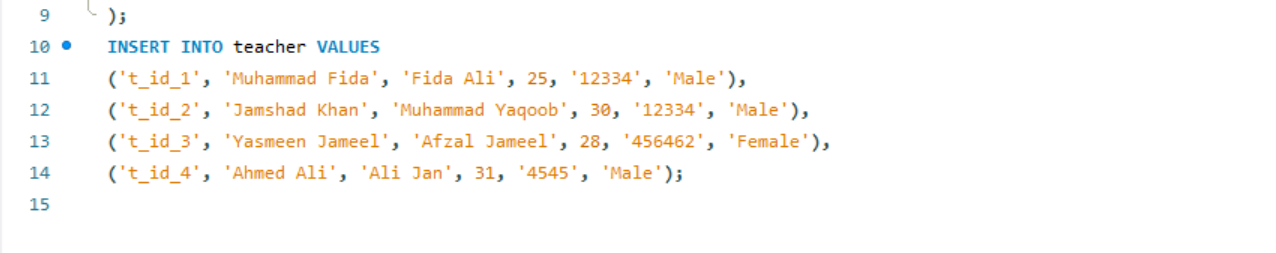
1. Teacher Attendance Detail



1. Insert data into teacher and its related tables.

**Queries:**

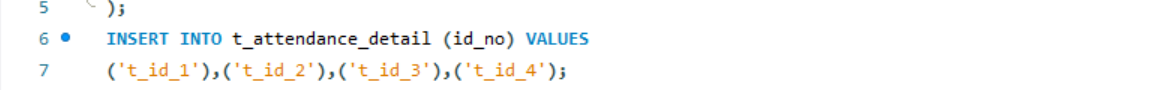
1. Insert data into teacher table



1. Insert data into teacher salary table



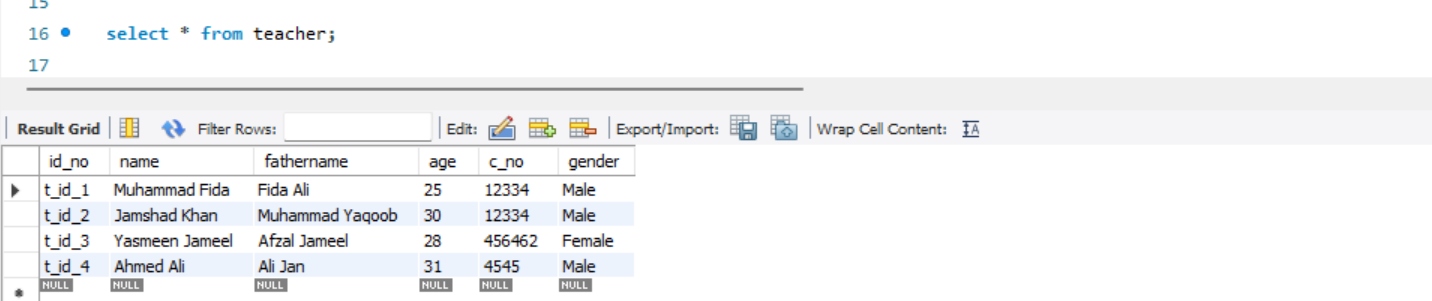
1. Insert data into teacher attendance table



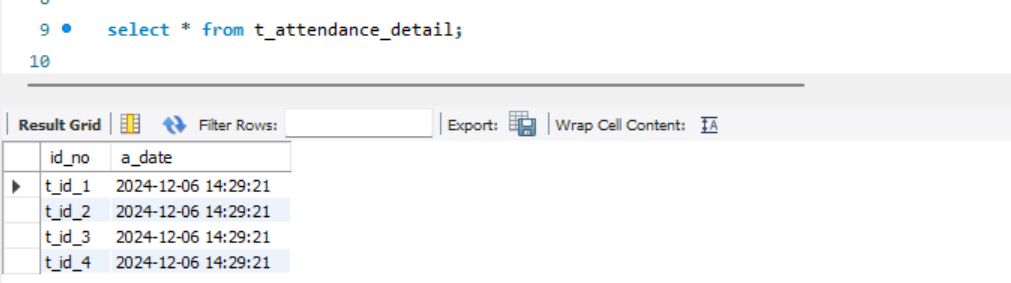
1. Show the result of teacher and its related tables.

**Result:**

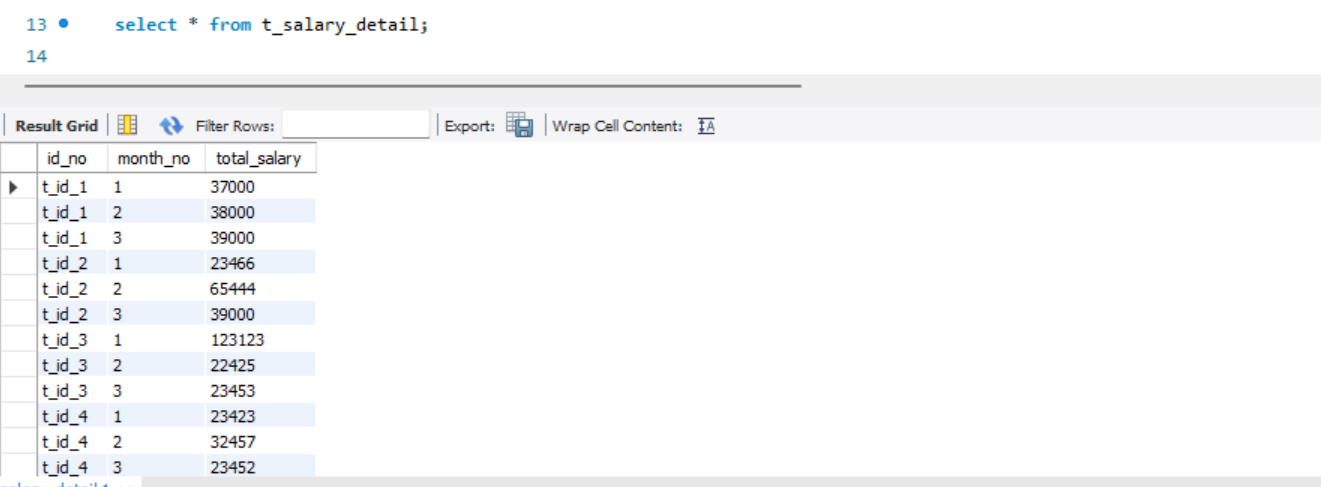
1. Result of teacher table.



1. Result of teacher attendance table.



1. Result of teacher salary table.

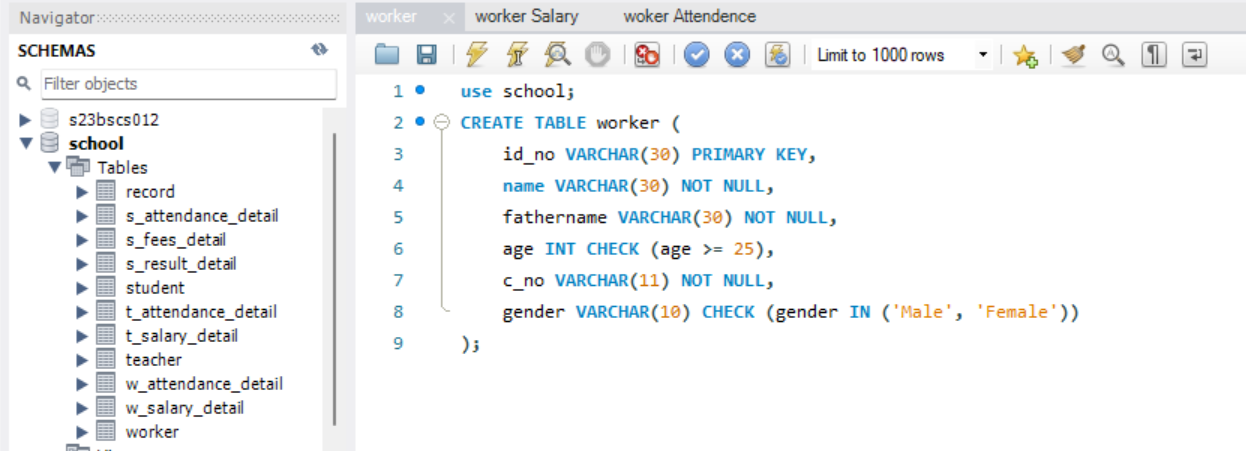


Q#4: Create a worker and its related table (worker, w\_salary\_detail, w\_attendance\_detail), insert data into tables and show their result.

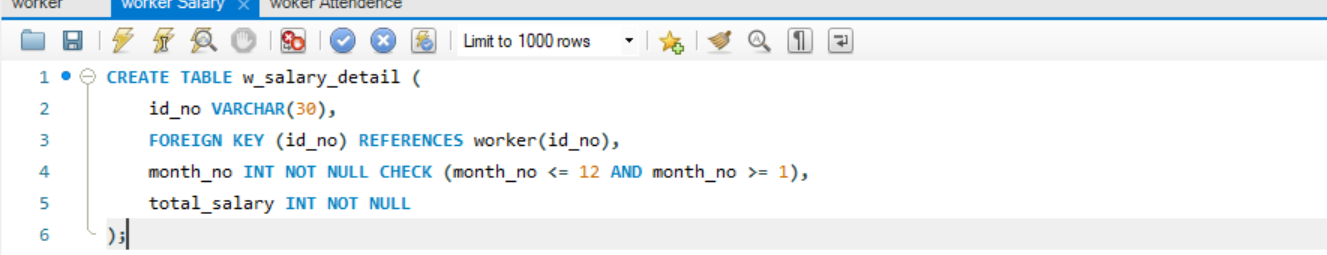
1. Worker tables

**Queries:**

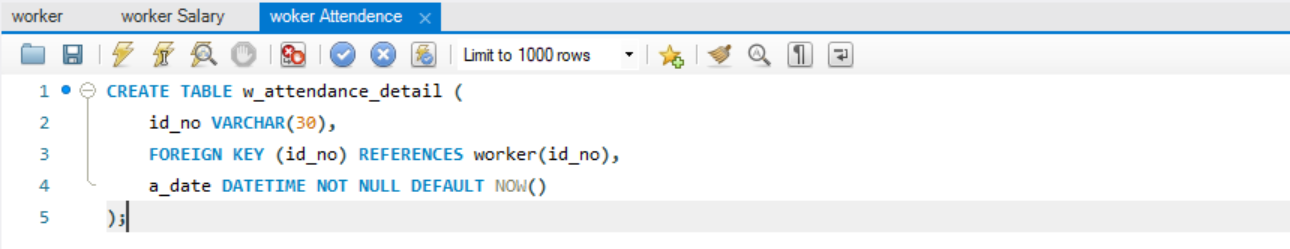
1. Table of worker



1. Table of worker salary



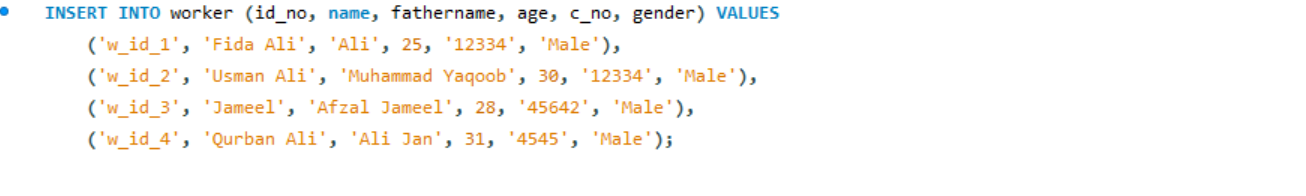
1. Table of worker Attendance



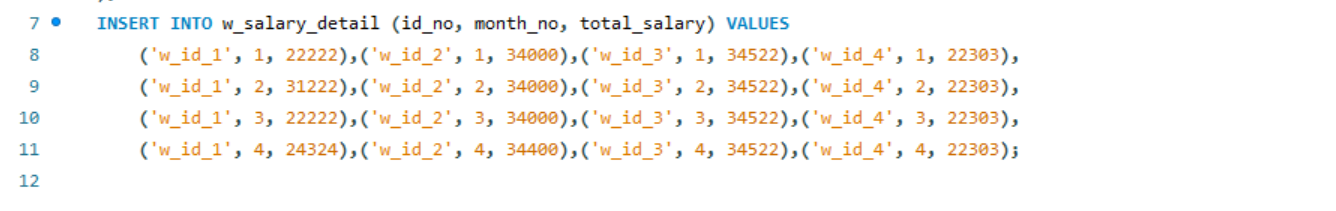
1. Insert data into worker and its related table.

**Queries:**

1. Insert data into worker table.



1. Insert data into worker salary table.



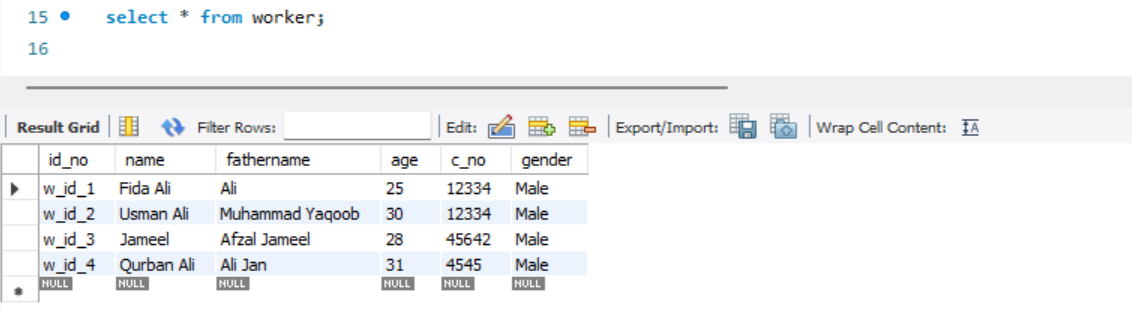
1. Insert data into worker attendance table.



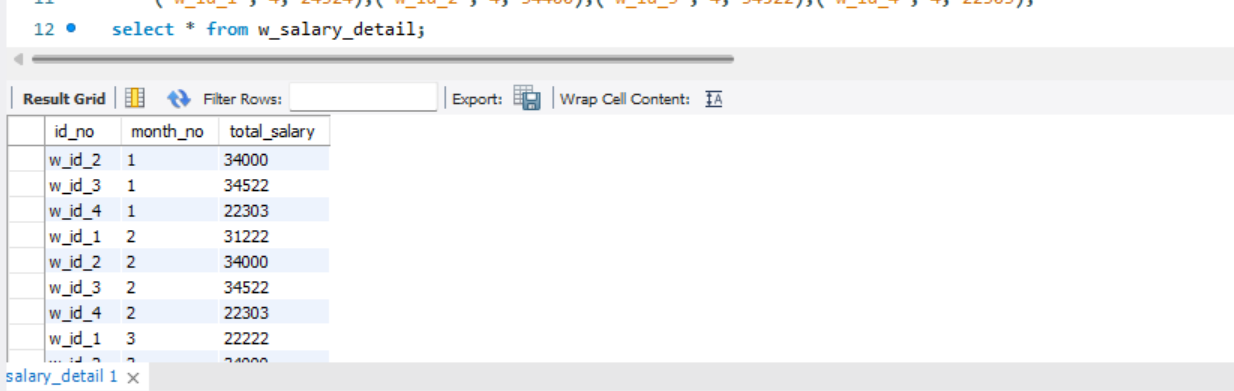
1. Show result of worker and its related tables

**Result:**

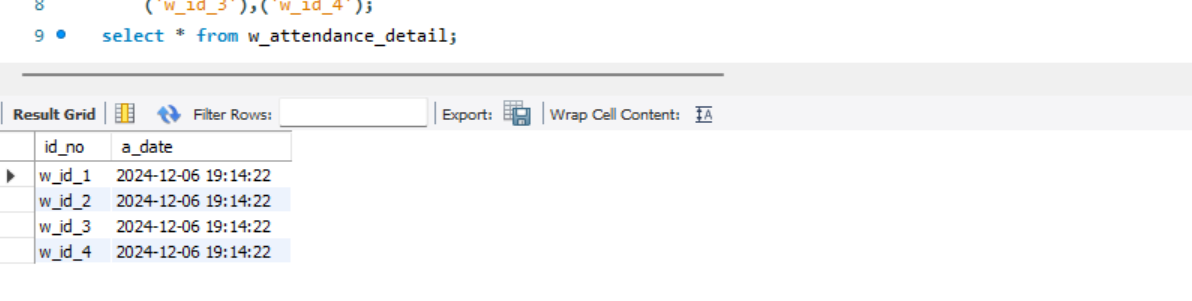
1. Result of worker table



1. Result of worker salary table



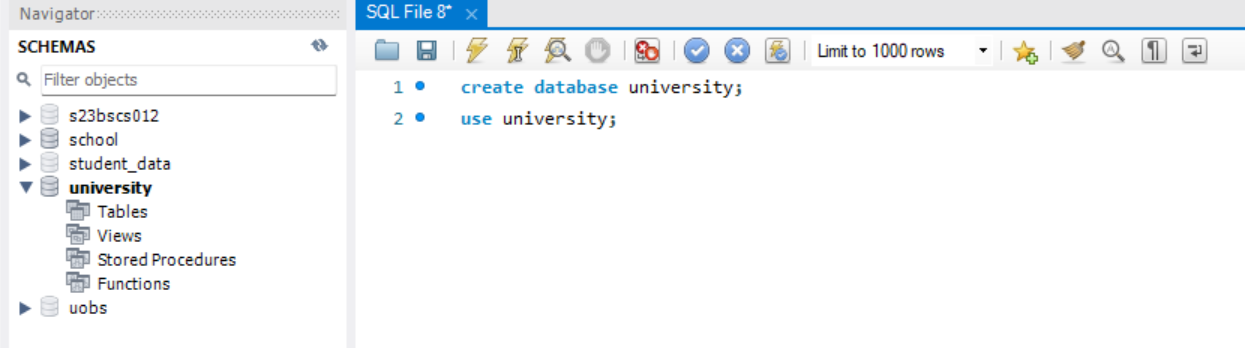
1. Result of worker Attendance table



**LAB ASSIGNMENT # 03(Part-2)**

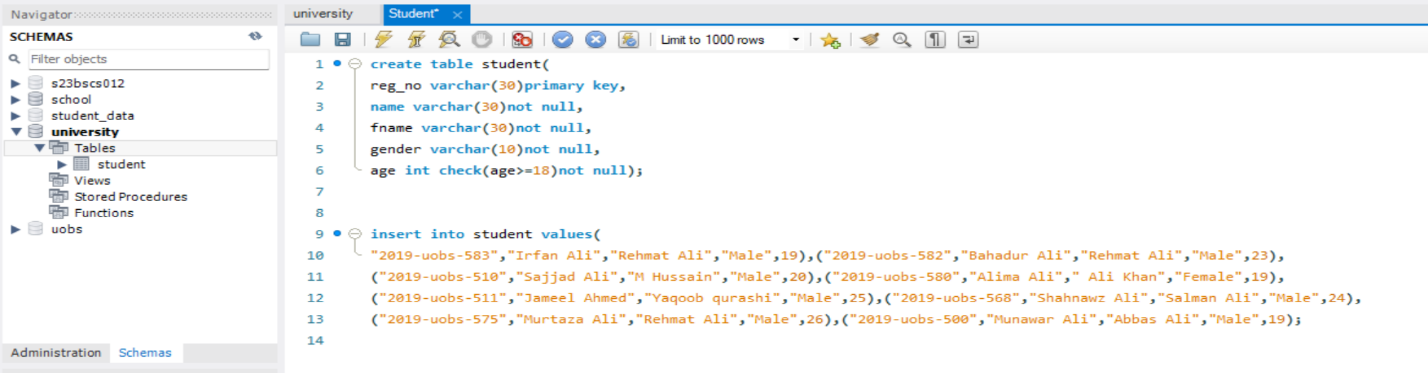
Q#1: Create a database for university

**Query and Result:**

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1. Create a table for the student and insert data.

**Queries:**

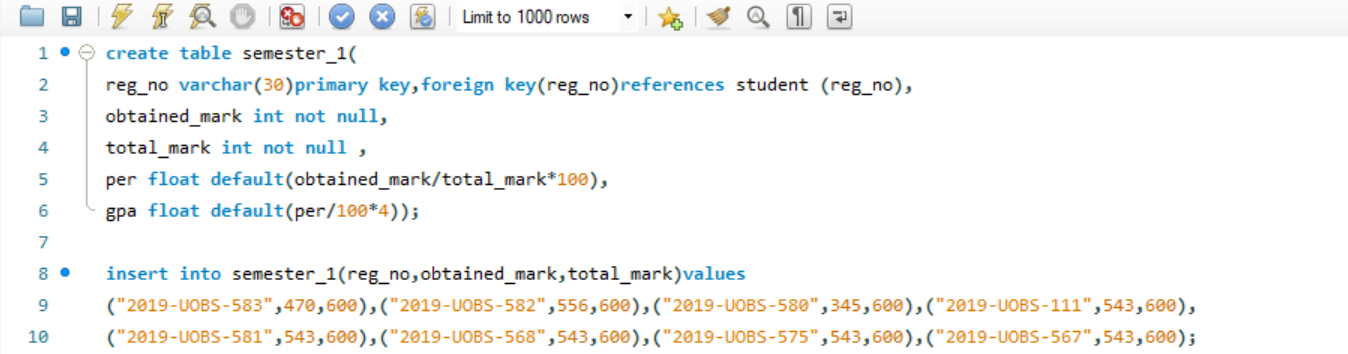
****

**Result:**

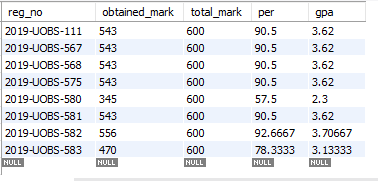
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1. Create semester (1,2,3,4,5,6,7,8, and final year degree) table and insert data into each table
2. Semester-1

**Queries:**

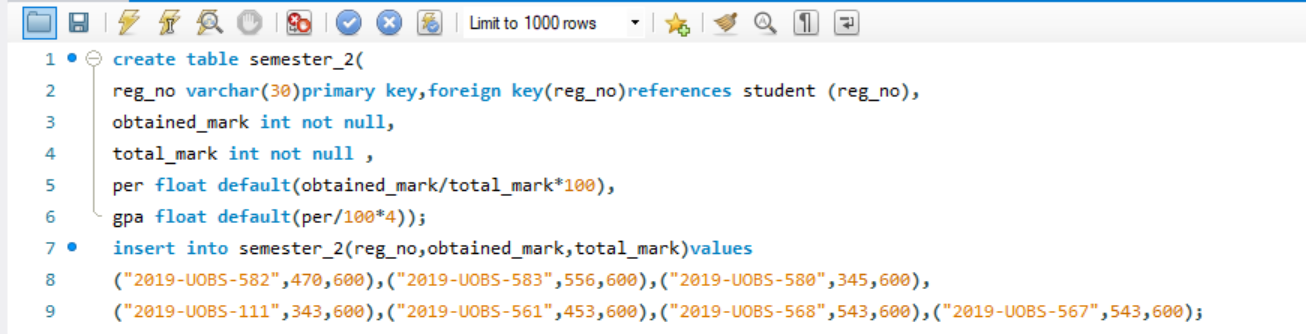
****

**Result:**

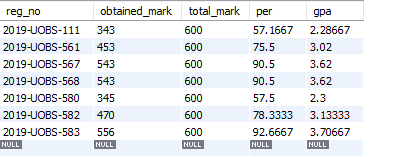


1. Semester-2

**Queries:**

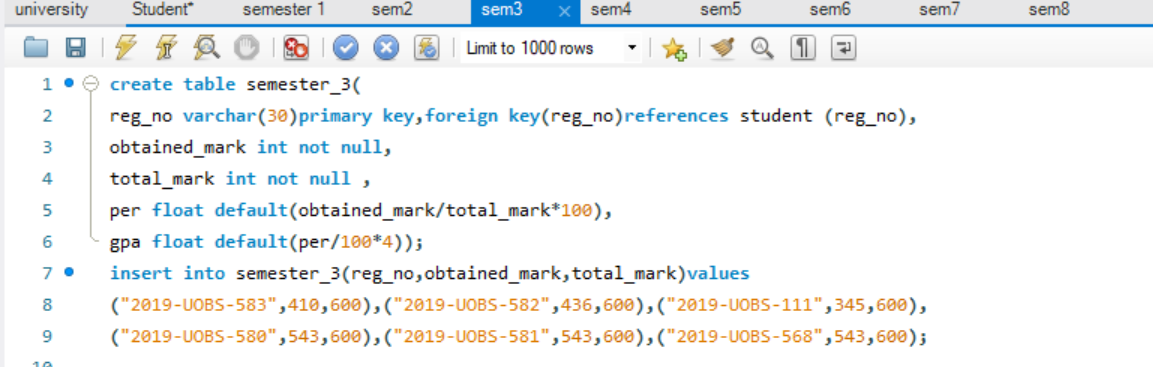
****

**Result:**

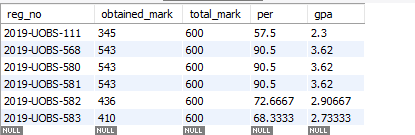


1. Semester-3

**Queries:**

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**Result:**

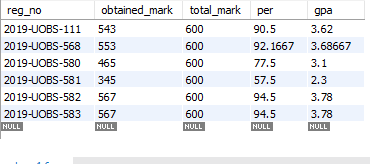


1. Semester-4

**Queries:**

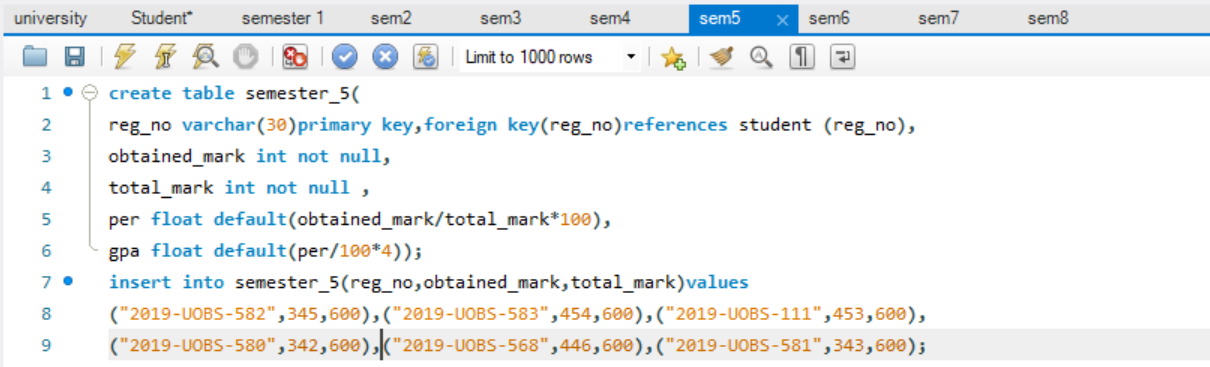
****

**Result:**

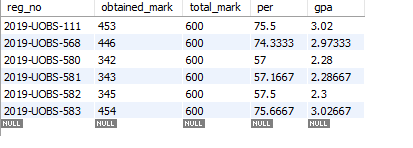


1. Semester-5

**Queries:**

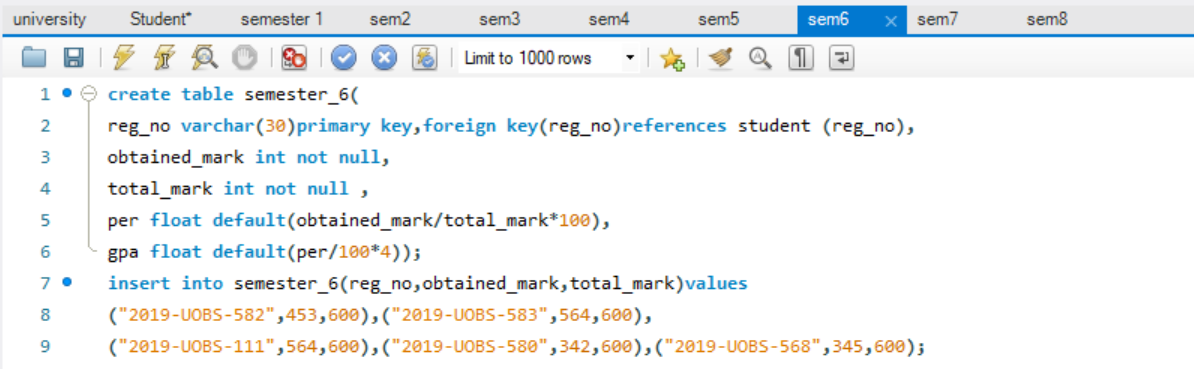
****

**Result:**

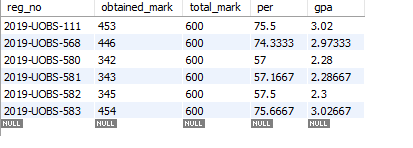


1. Semester-6

**Queries:**

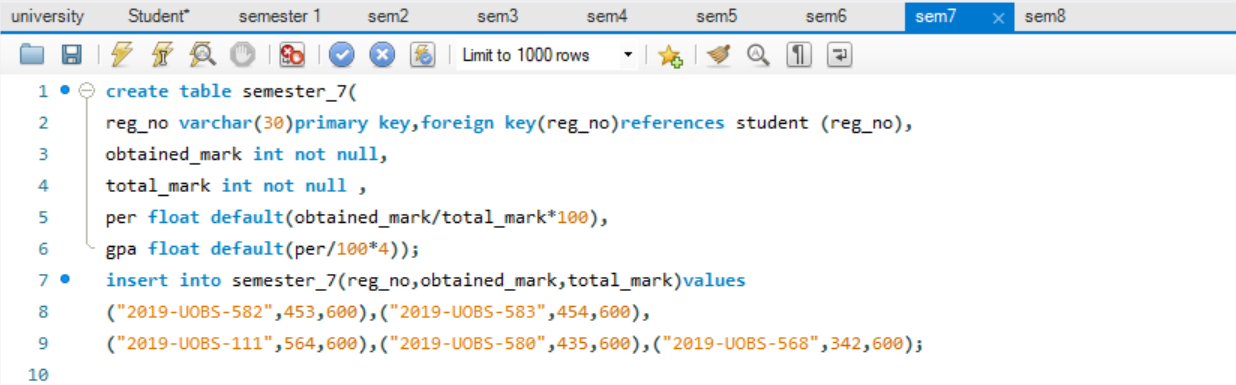
****

**Result:**

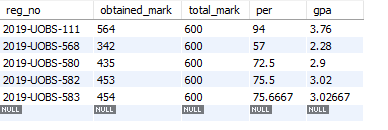


1. Semester-7

**Queries:**

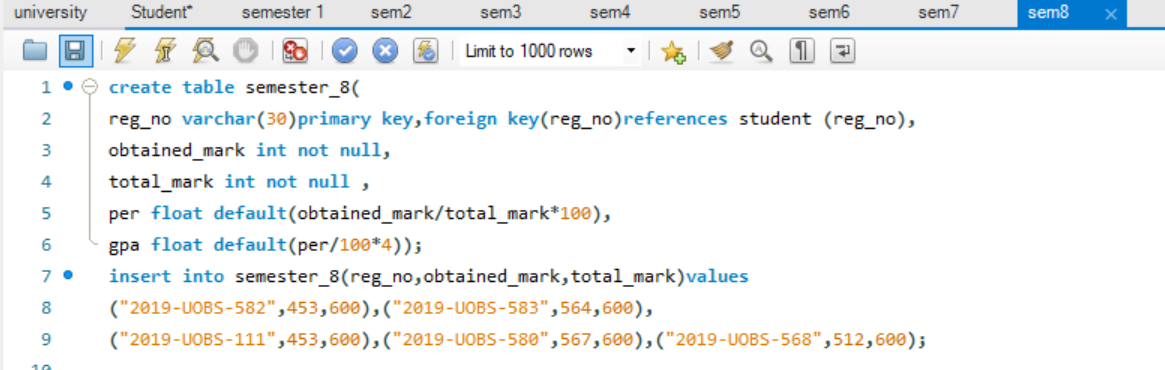
****

**Result:**

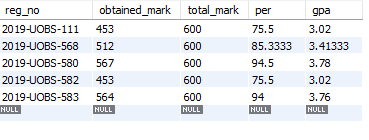


1. Semester-8

**Queries:**

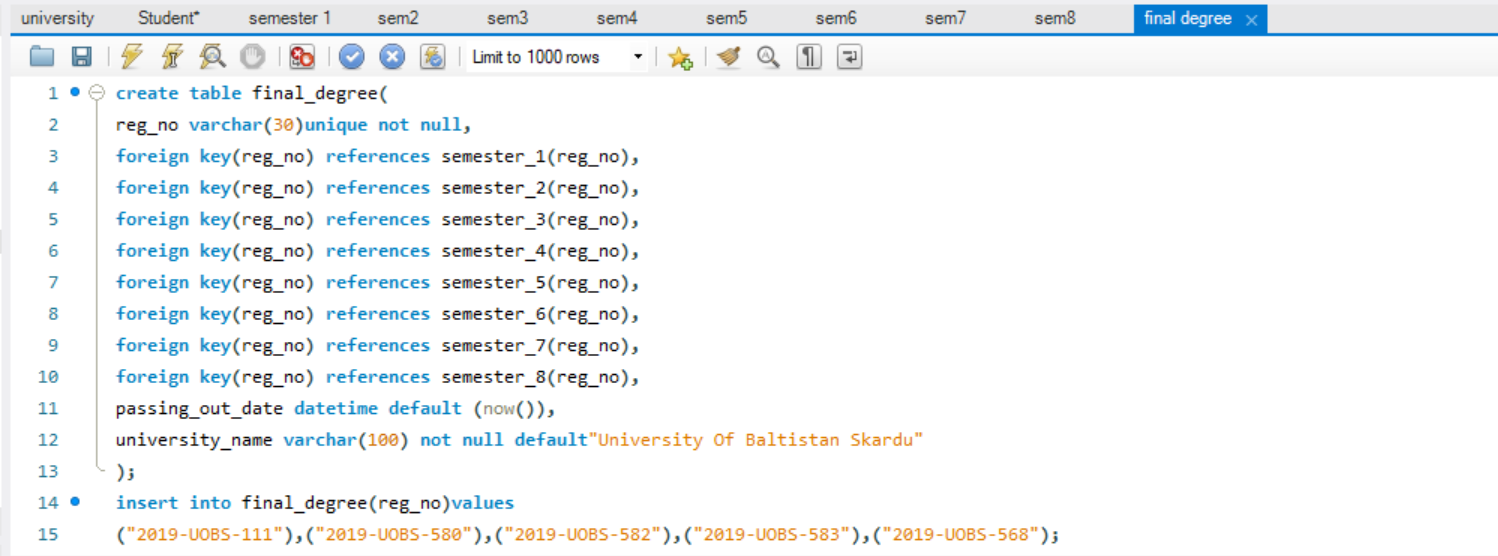
****

**Result:**



1. Final year Degree

**Queries:**

****

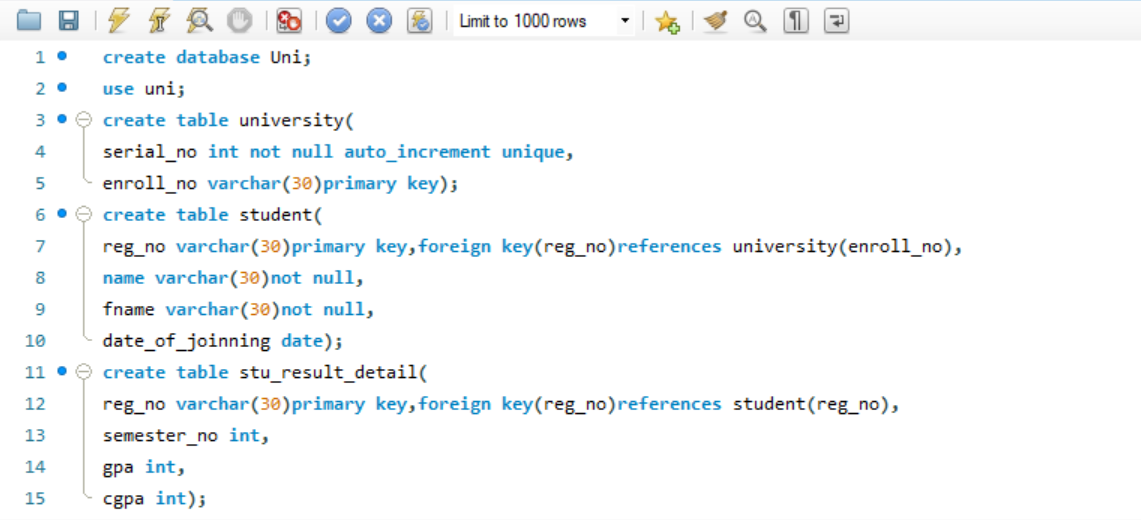
**Result:**



**LAB ASSIGNMENT # 04**

Q#1: Repeat the example 1 and 2 of lab 5.

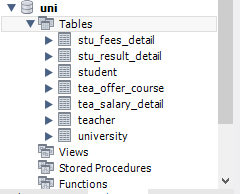
**Queries:**

****

****

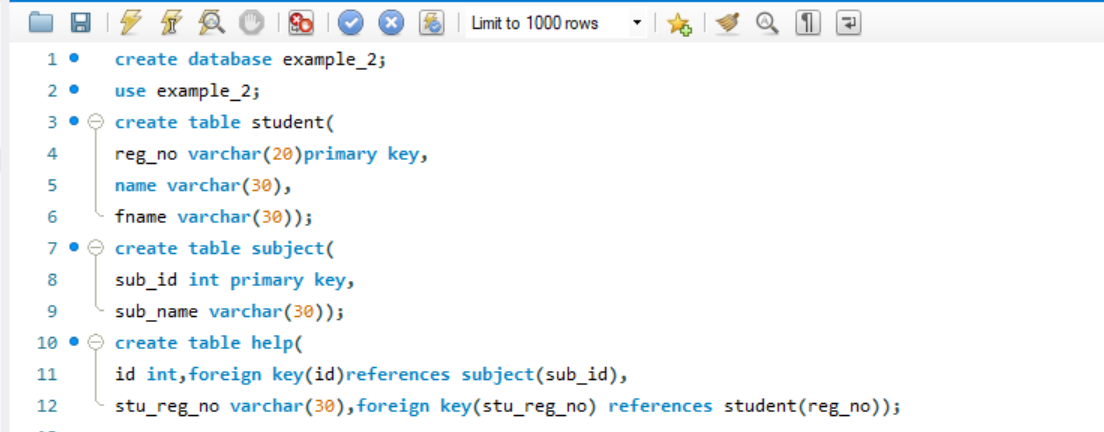
****

**Result:**

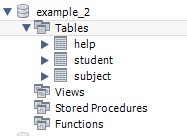


Q#2: Create a database “example-2” which the following tables (help, student, subject).

**Queries:**

****

**Result:**



***The End***