NAME: **Sristi Sengupta**

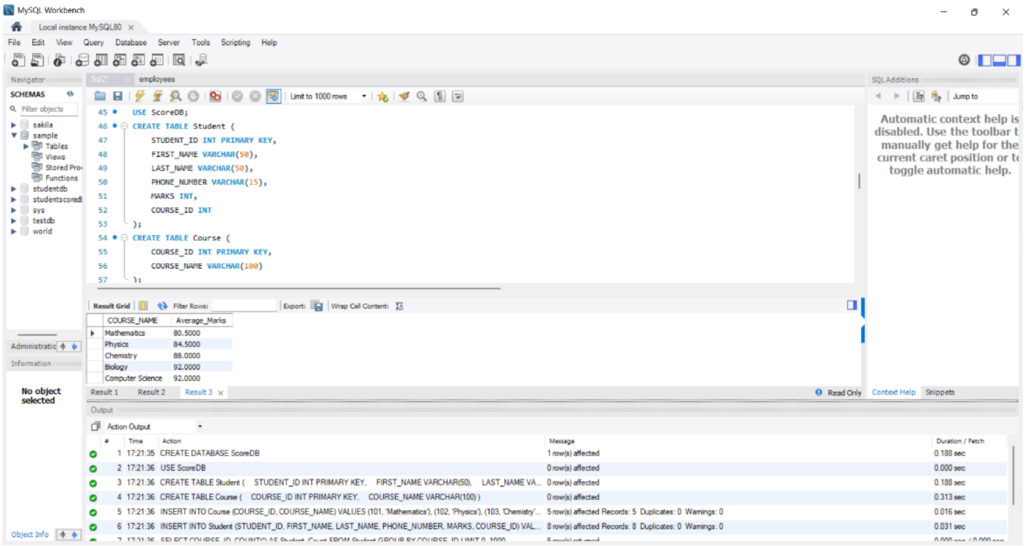
DEPARTMENT: **B.Tech(ECE)**

COLLEGE: **Netaji Subhash Engineering College**

STUDENT ID:**AF0453862**

```
CREATE DATABASE ScoreDB;

USE ScoreDB;

CREATE TABLE Student (

   STUDENT_ID INT PRIMARY KEY,

   FIRST_NAME VARCHAR(50),

   LAST_NAME VARCHAR(50),

   PHONE_NUMBER VARCHAR(15),

   MARKS INT,

   COURSE_ID INT

);

CREATE TABLE Course (

   COURSE_ID INT PRIMARY KEY,

   COURSE_NAME VARCHAR(100)

);

INSERT INTO Course (COURSE_ID, COURSE_NAME) VALUES

(101, 'Mathematics'),

(102, 'Physics'),

(103, 'Chemistry'),

(104, 'Biology'),

(105, 'Computer Science');

INSERT INTO Student (STUDENT_ID, FIRST_NAME, LAST_NAME, PHONE_NUMBER, MARKS,
COURSE_ID) VALUES

(1, 'John', 'Doe', '1234567890', 85, 101),

(2, 'Jane', 'Smith', '9876543210', 90, 102),

(3, 'Alice', 'Brown', '1122334455', 88, 103),

(4, 'Bob', 'Johnson', '9988776655', 76, 101),

(5, 'Charlie', 'Davis', '5566778899', 92, 104),

(6, 'Emily', 'Clark', '6677889900', 89, 105),

(7, 'David', 'Martinez', '2233445566', 79, 102),

(8, 'Sophia', 'Garcia', '3344556677', 95, 105);
```

```
SELECT COURSE_ID, COUNT(*) AS Student_Count
FROM Student
GROUP BY COURSE_ID;
SELECT
   S.FIRST_NAME || ' ' || S.LAST_NAME AS Student_Name,
   C.COURSE_NAME,
   S.MARKS
FROM
   Student S
JOIN
   Course C
ON
   S.COURSE_ID = C.COURSE_ID;
SELECT
   C.COURSE_NAME,
   AVG(S.MARKS) AS Average_Marks
FROM
   Student S
JOIN
   Course C
ON
   S.COURSE_ID = C.COURSE_ID
GROUP BY
   C.COURSE_NAME;
   SELECT * FROM Student;
   SELECT * FROM Course;
```

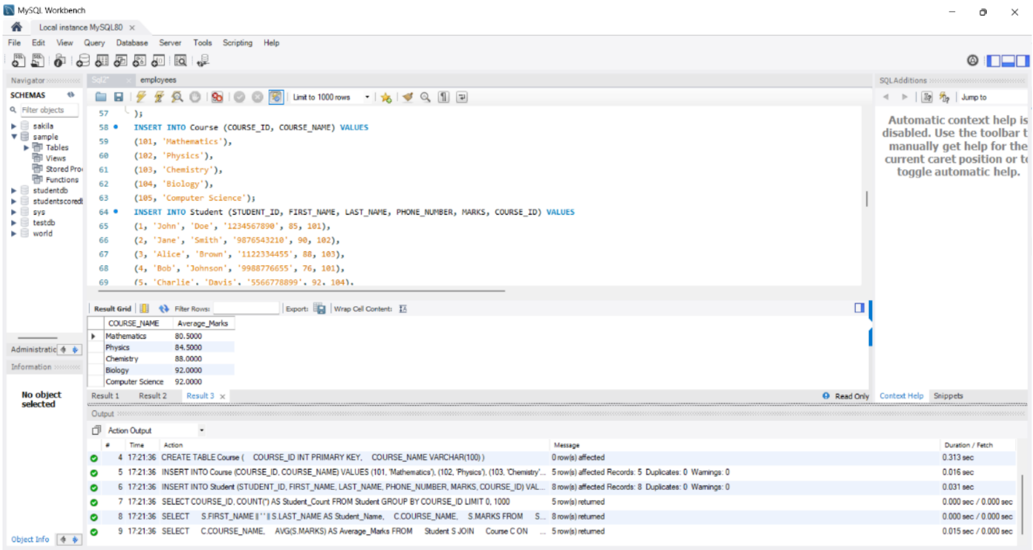


```sql
USE ScoreDB;
CREATE TABLE Student (
    STUDENT_ID INT PRIMARY KEY,
    FIRST_NAME VARCHAR(50),
    LAST_NAME VARCHAR(50),
    PHONE_NUMBER VARCHAR(15),
    MARKS INT,
    COURSE_ID INT
);
CREATE TABLE Course (
    COURSE_ID INT PRIMARY KEY,
    COURSE_NAME VARCHAR(100)
);
```

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

COURSE_NAME	Average_Marks
Mathematics	80.5000
Physics	84.5000
Chemistry	88.0000
Biology	92.0000
Computer Science	92.0000

```
#  Time      Action                                                                                         Message                                                  Duration / Fetch
1  17:21:35  CREATE DATABASE ScoreDB                                                                        1 row(s) affected                                        0.188 sec
2  17:21:36  USE ScoreDB                                                                                    0 row(s) affected                                        0.000 sec
3  17:21:36  CREATE TABLE Student (    STUDENT_ID INT PRIMARY KEY,    FIRST_NAME VARCHAR(50),    LAST_NAME VA...  0 row(s) affected                                   0.188 sec
4  17:21:36  CREATE TABLE Course (    COURSE_ID INT PRIMARY KEY,    COURSE_NAME VARCHAR(100) )              0 row(s) affected                                        0.313 sec
5  17:21:36  INSERT INTO Course (COURSE_ID, COURSE_NAME) VALUES (101, 'Mathematics'), (102, 'Physics'), (103, 'Chemistry'...  5 row(s) affected Records: 5  Duplicates: 0  Warnings: 0  0.016 sec
6  17:21:36  INSERT INTO Student (STUDENT_ID, FIRST_NAME, LAST_NAME, PHONE_NUMBER, MARKS, COURSE_ID) VAL...  8 row(s) affected Records: 8  Duplicates: 0  Warnings: 0  0.031 sec
7  17:21:36  SELECT COURSE_ID, COUNT(*) AS Student_Count FROM Student GROUP BY COURSE_ID LIMIT 0, 1000      5 row(s) returned                                        0.000 sec / 0.000 sec
```



```sql
);
INSERT INTO Course (COURSE_ID, COURSE_NAME) VALUES
(101, 'Mathematics'),
(102, 'Physics'),
(103, 'Chemistry'),
(104, 'Biology'),
(105, 'Computer Science');
INSERT INTO Student (STUDENT_ID, FIRST_NAME, LAST_NAME, PHONE_NUMBER, MARKS, COURSE_ID) VALUES
(1, 'John', 'Doe', '1234567890', 85, 101),
(2, 'Jane', 'Smith', '9876543210', 90, 102),
(3, 'Alice', 'Brown', '1122334455', 88, 103),
(4, 'Bob', 'Johnson', '9988776655', 76, 101),
(5, 'Charlie', 'Davis', '5566778899', 92, 104),
```

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COURSE_NAME	Average_Marks
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#  Time      Action                                                                                         Message                                                  Duration / Fetch
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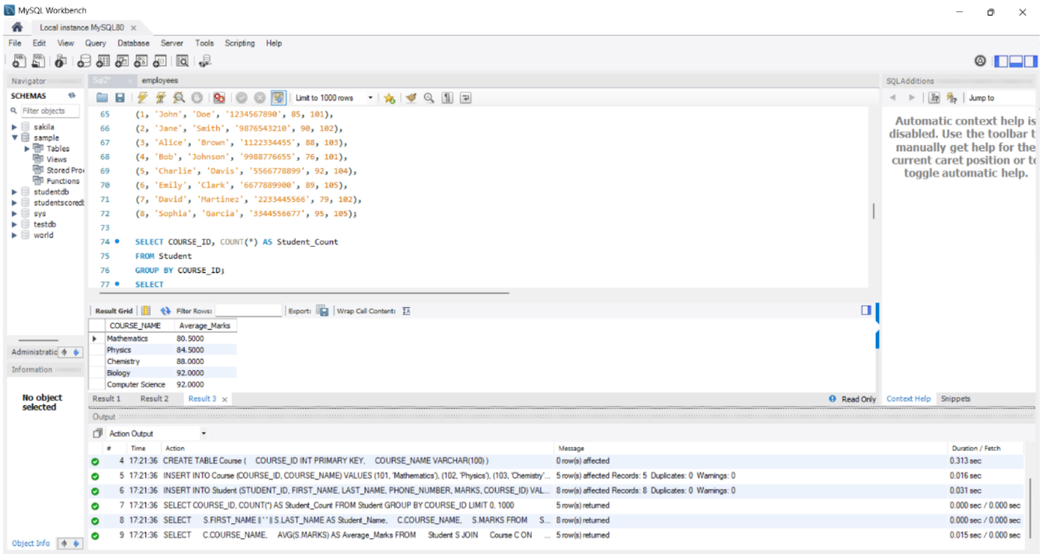
7  17:21:36  SELECT COURSE_ID, COUNT(*) AS Student_Count FROM Student GROUP BY COURSE_ID LIMIT 0, 1000      5 row(s) returned                                        0.000 sec / 0.000 sec
8  17:21:36  SELECT     S.FIRST_NAME || ' ' || S.LAST_NAME AS Student_Name,     C.COURSE_NAME,     S.MARKS FROM     S...  8 row(s) returned                 0.000 sec / 0.000 sec
9  17:21:36  SELECT     C.COURSE_NAME,     AVG(S.MARKS) AS Average_Marks FROM     Student S JOIN     Course C ON     ...  5 row(s) returned      0.015 sec / 0.000 sec
```



```sql
(1, 'John', 'Doe', '1234567890', 85, 101),
(2, 'Jane', 'Smith', '9876543210', 90, 102),
(3, 'Alice', 'Brown', '1122334455', 88, 103),
(4, 'Bob', 'Johnson', '9988776655', 76, 101),
(5, 'Charlie', 'Davis', '5566778899', 92, 104),
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(7, 'David', 'Martinez', '2233445566', 79, 102),
(8, 'Sophia', 'Garcia', '3344556677', 95, 105);

SELECT COURSE_ID, COUNT(*) AS Student_Count
FROM Student
GROUP BY COURSE_ID;
SELECT
```

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COURSE_NAME	Average_Marks
Mathematics	80.5000
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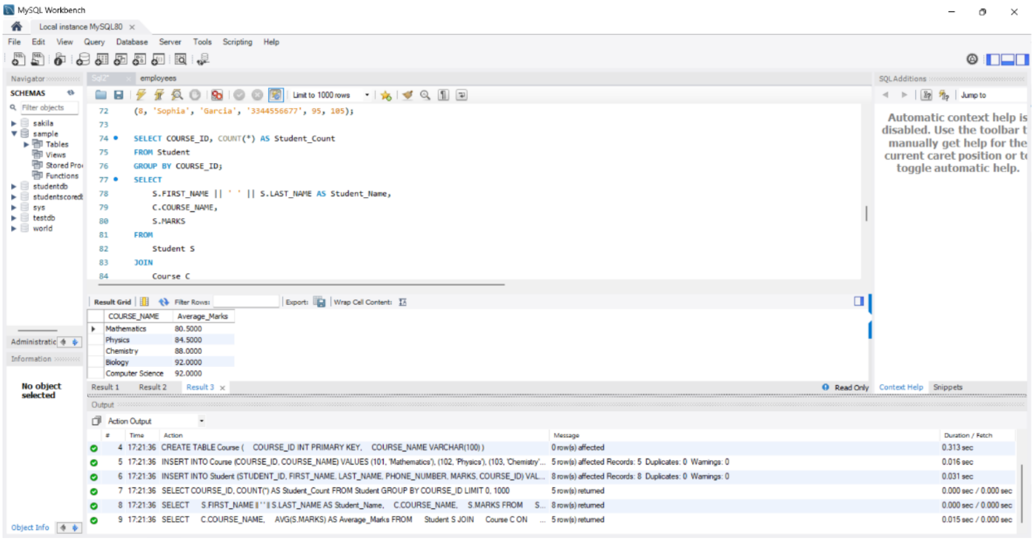

```sql
(8, 'Sophia', 'Garcia', '3344556677', 95, 105);

SELECT COURSE_ID, COUNT(*) AS Student_Count
FROM Student
GROUP BY COURSE_ID;
SELECT
    S.FIRST_NAME || ' ' || S.LAST_NAME AS Student_Name,
    C.COURSE_NAME,
    S.MARKS
FROM
    Student S
JOIN
    Course C
```

	COURSE_NAME	Average_Marks
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```
  #  Time      Action                                                                                       Message                                                      Duration / Fetch
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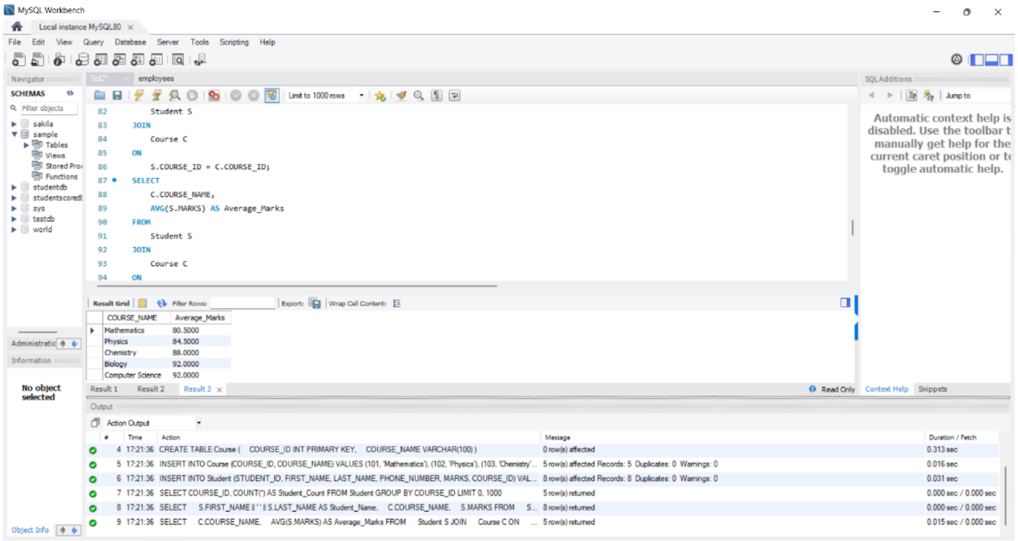

```sql
    Student S
JOIN
    Course C
ON
    S.COURSE_ID = C.COURSE_ID;
SELECT
    C.COURSE_NAME,
    AVG(S.MARKS) AS Average_Marks
FROM
    Student S
JOIN
    Course C
ON
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	COURSE_NAME	Average_Marks
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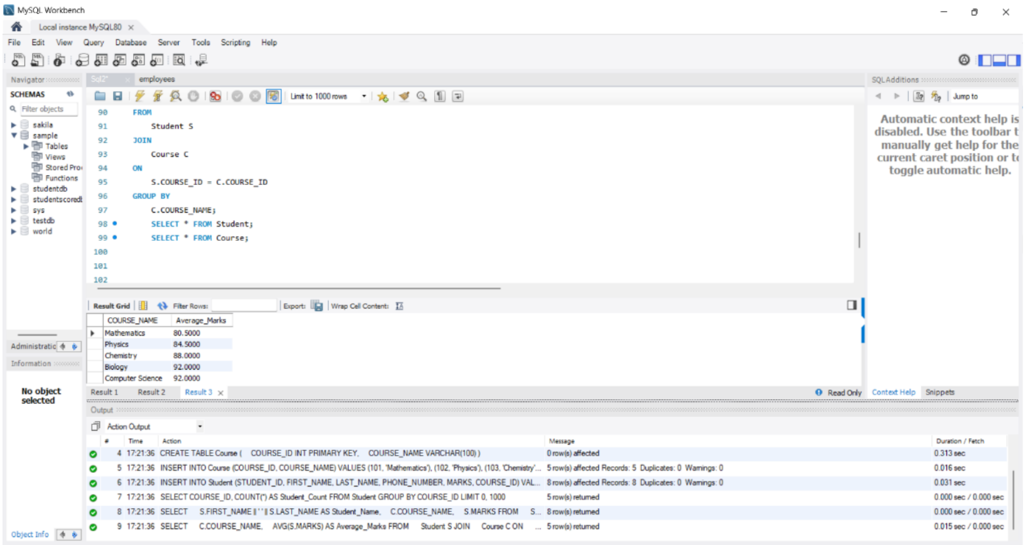

```sql
FROM
    Student S
JOIN
    Course C
ON
    S.COURSE_ID = C.COURSE_ID
GROUP BY
    C.COURSE_NAME;
    SELECT * FROM Student;
    SELECT * FROM Course;



```

	COURSE_NAME	Average_Marks
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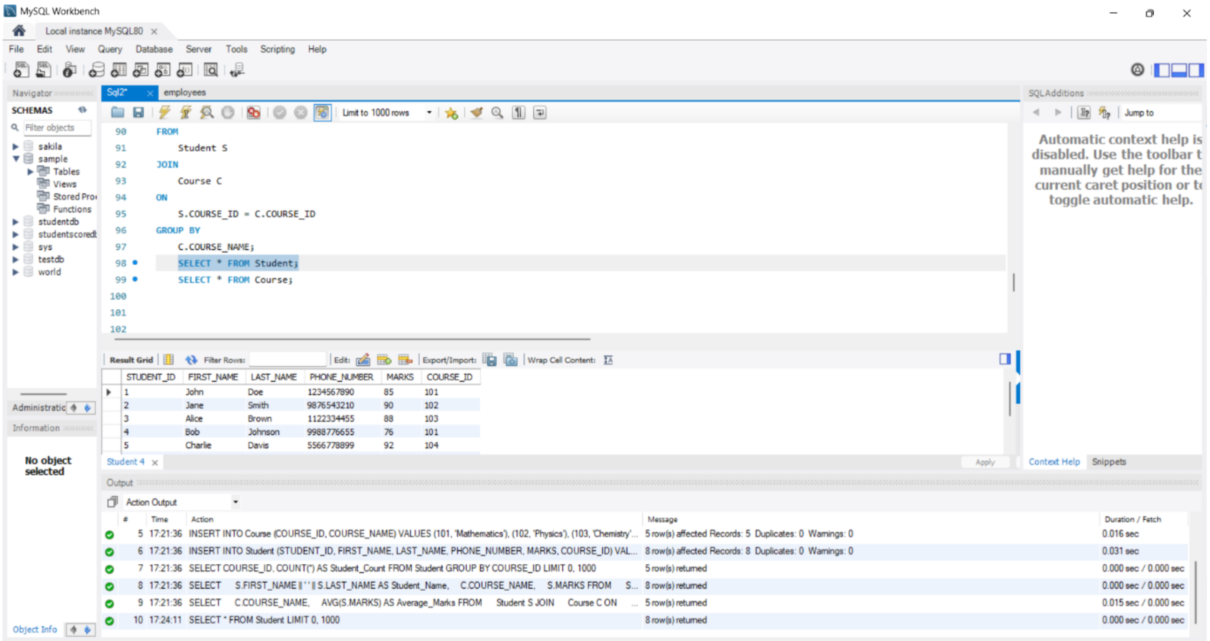

```
    FROM
        Student S
    JOIN
        Course C
    ON
        S.COURSE_ID = C.COURSE_ID
    GROUP BY
        C.COURSE_NAME;
        SELECT * FROM Student;
        SELECT * FROM Course;
```

STUDENT_ID	FIRST_NAME	LAST_NAME	PHONE_NUMBER	MARKS	COURSE_ID
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3	Alice	Brown	1122334455	88	103
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5	Charlie	Davis	5566778899	92	104

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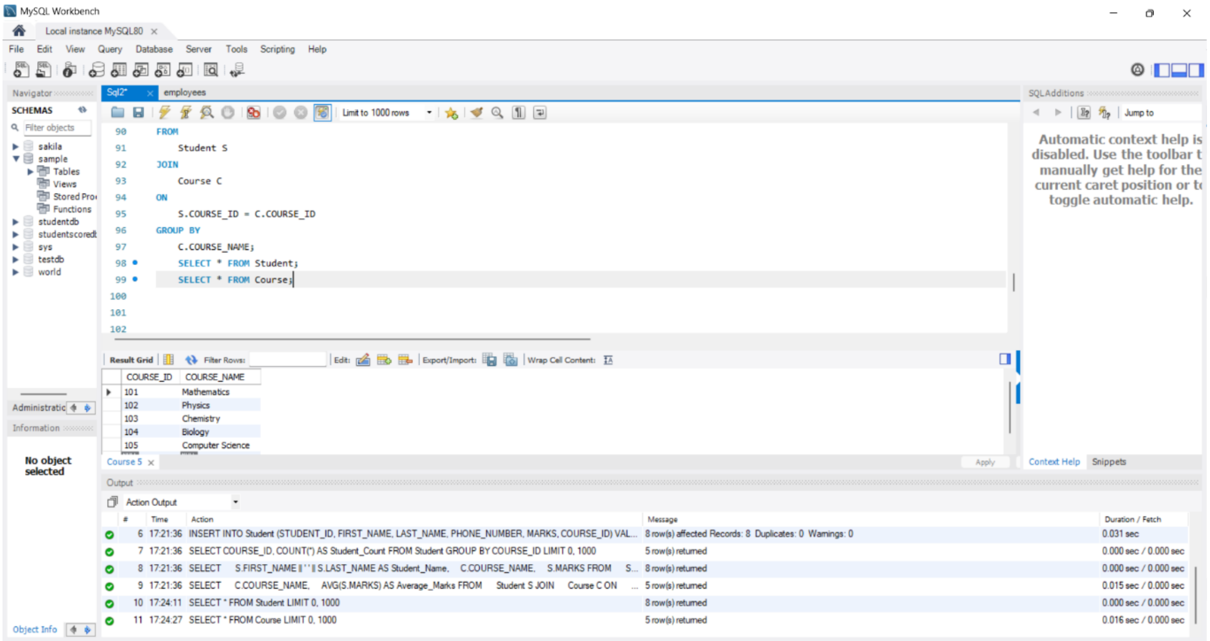
9   17:21:36  SELECT    C.COURSE_NAME,    AVG(S.MARKS) AS Average_Marks FROM    Student S JOIN    Course C ON    ...  5 row(s) returned                           0.015 sec / 0.000 sec
10  17:24:11  SELECT * FROM Student LIMIT 0, 1000                                                              8 row(s) returned                                            0.000 sec / 0.000 sec
```



```
    FROM
        Student S
    JOIN
        Course C
    ON
        S.COURSE_ID = C.COURSE_ID
    GROUP BY
        C.COURSE_NAME;
        SELECT * FROM Student;
        SELECT * FROM Course;
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COURSE_ID	COURSE_NAME
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#   Time      Action                                                                                          Message                                                      Duration / Fetch
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11  17:24:27  SELECT * FROM Course LIMIT 0, 1000                                                               5 row(s) returned                                            0.016 sec / 0.000 sec
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