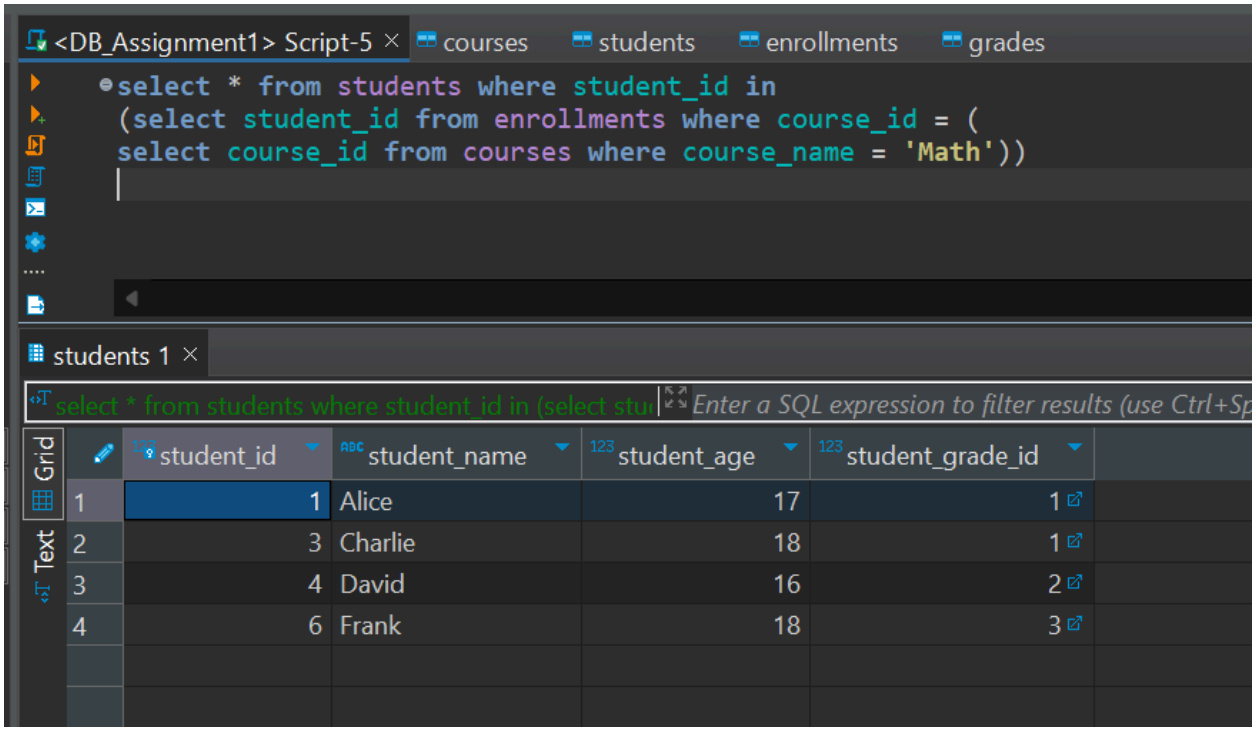
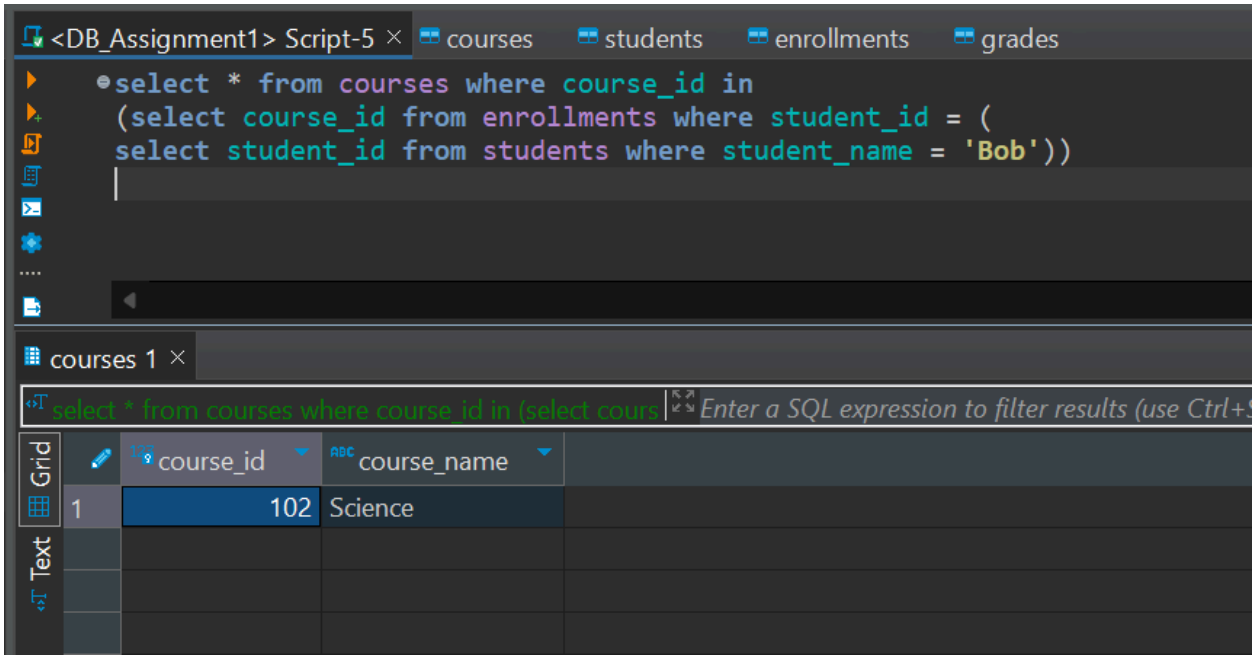
Q1.

```
select * from students where student_id in
(select student_id from enrollments where course_id =
( select course_id from courses where course_name = 'Math'))
```



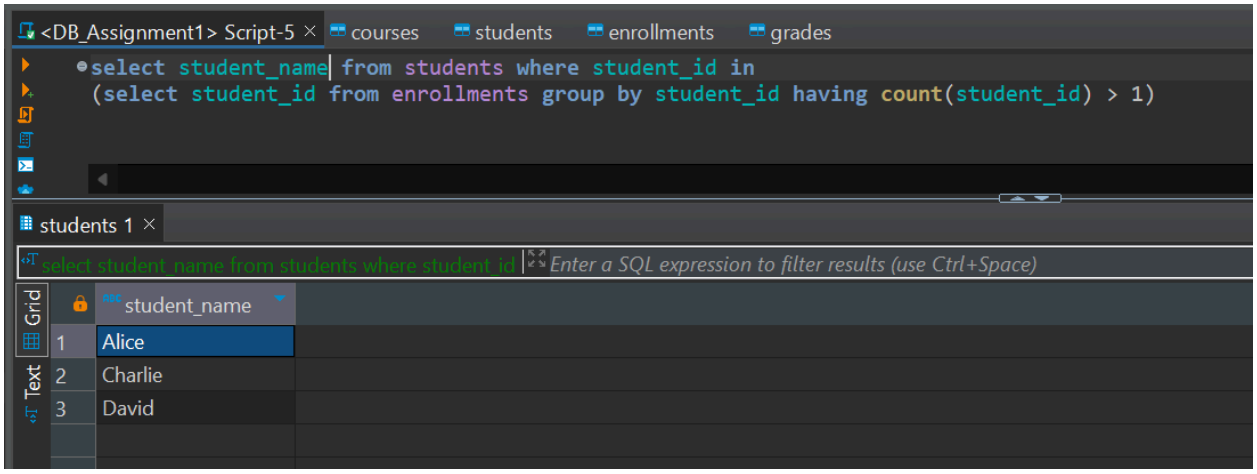
Q2.

```
select * from courses where course_id in
(select course_id from enrollments where student_id = (
select student_id from students where student_name = 'Bob'));
```



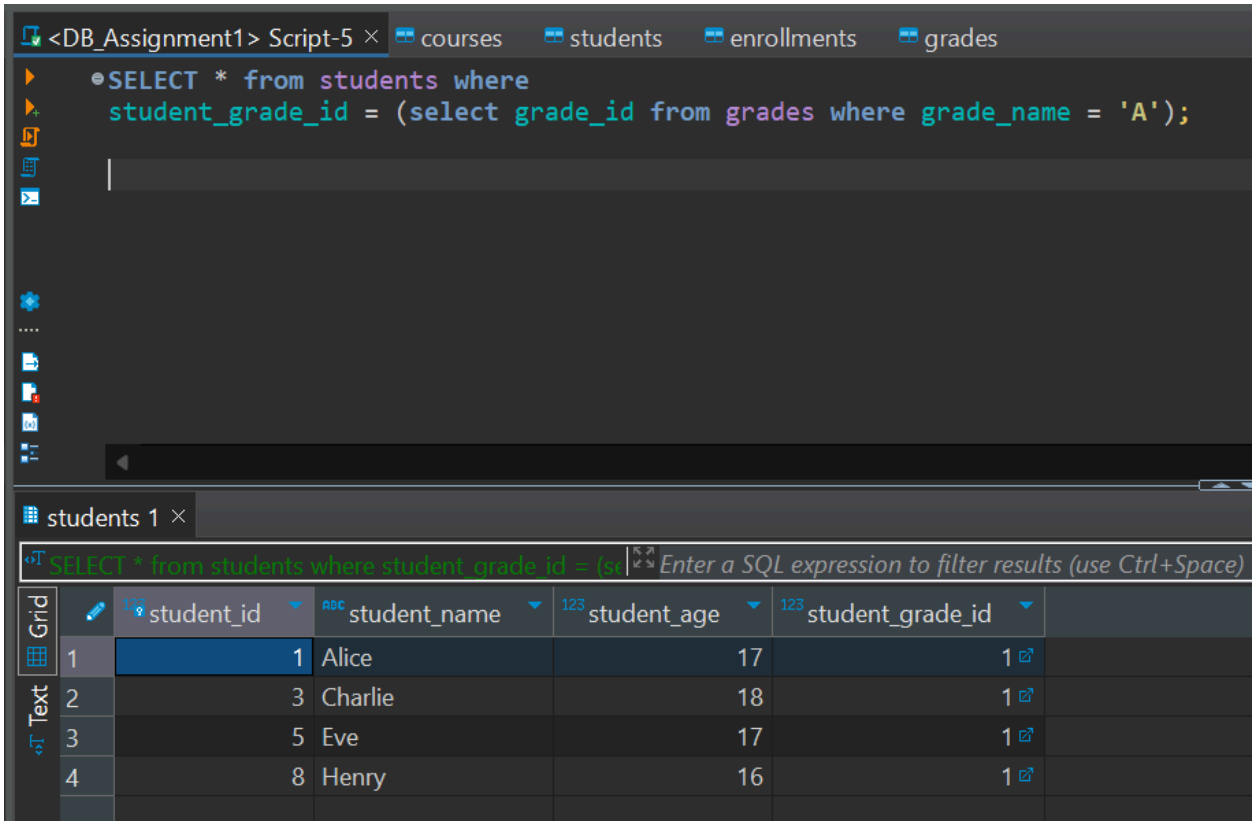

Q3.

```
select student_name from students where student_id in
(select student_id from enrollments group by student_id having count(student_id) > 1);
```



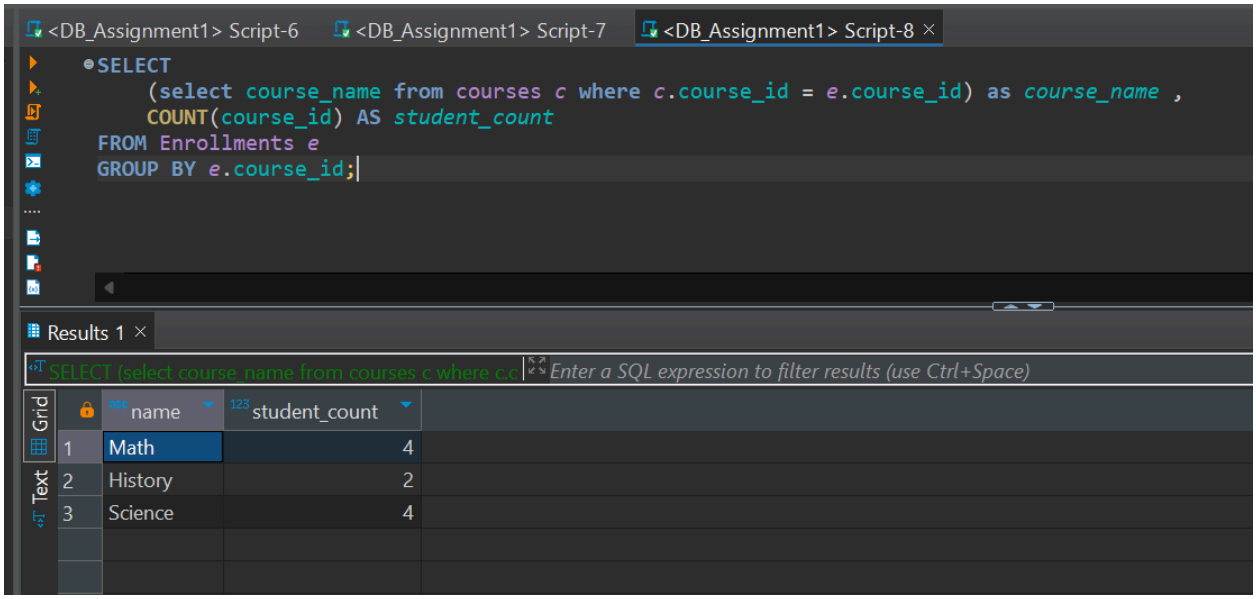
Q4.

```
SELECT * from students where
student_grade_id = (select grade_id from grades where grade_name = 'A');
```



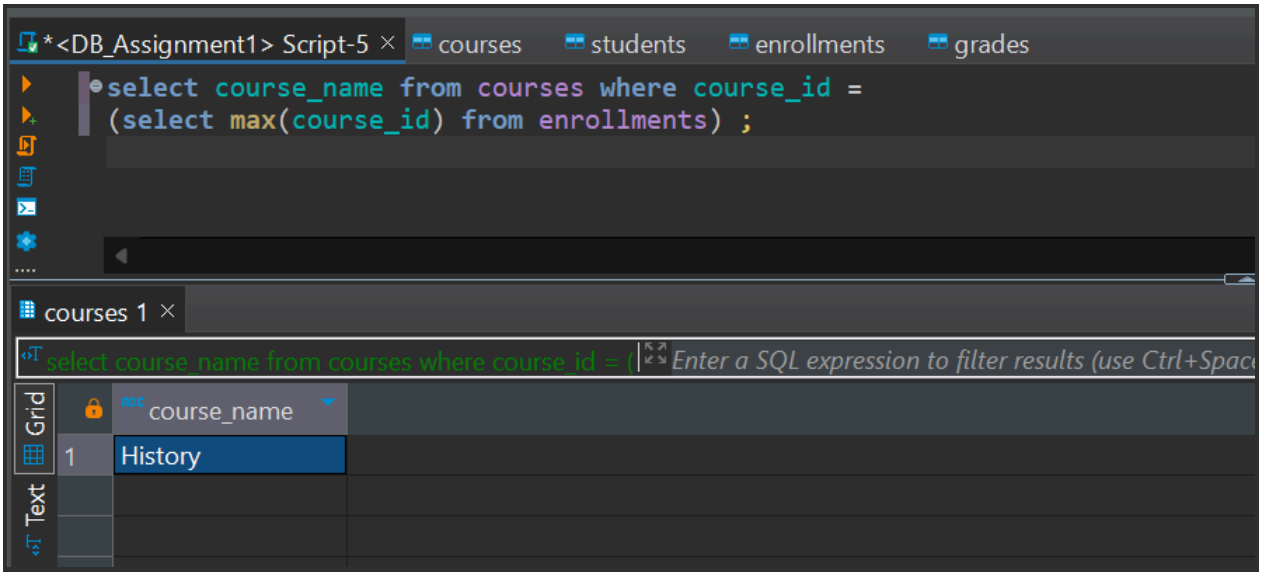
Q5.

```sql
SELECT
        (select course_name from courses c where c.course_id = e.course_id) as course_name ,
        COUNT(course_id) AS student_count
FROM Enrollments e
GROUP BY e.course_id;
```



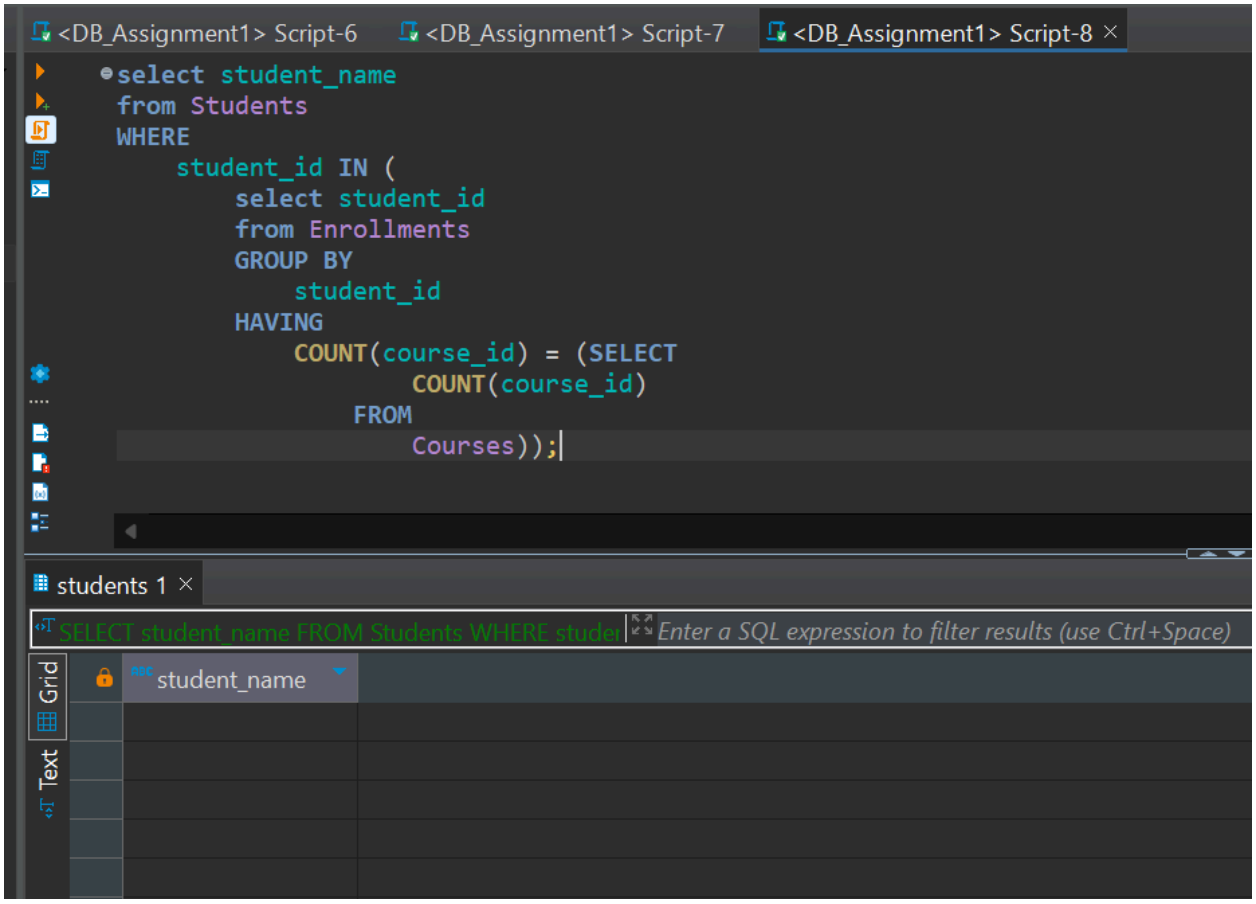
Q6.

```
select course_name from courses where course_id = (select max(course_id) from enrollments) ;
```



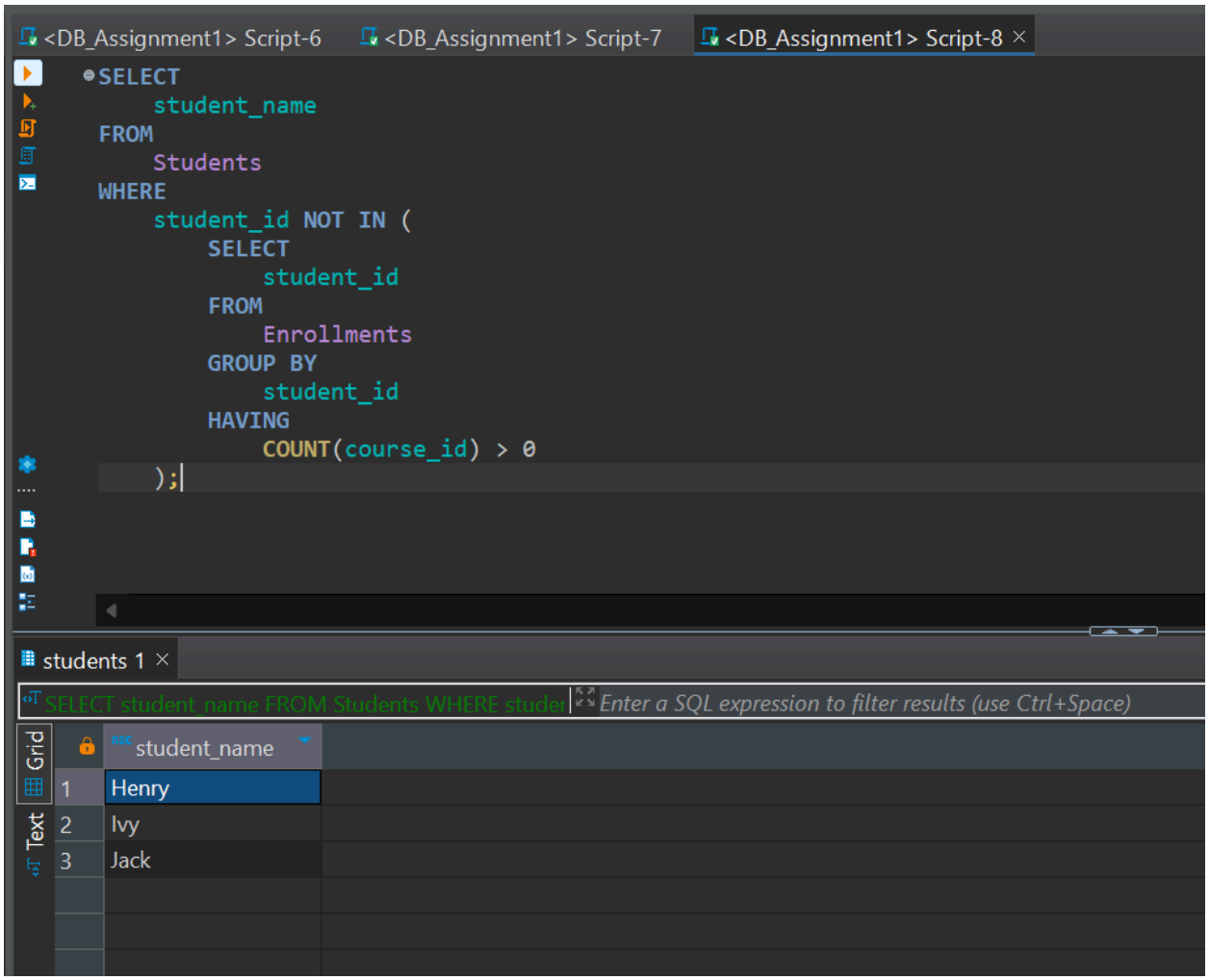
Q7.

```
select student_name
from Students
WHERE
  student_id IN (
    select student_id
    from Enrollments
    GROUP BY
       student_id
    HAVING
                        COUNT(course_id) = (SELECT
          COUNT(course_id)
        FROM
          Courses));
```



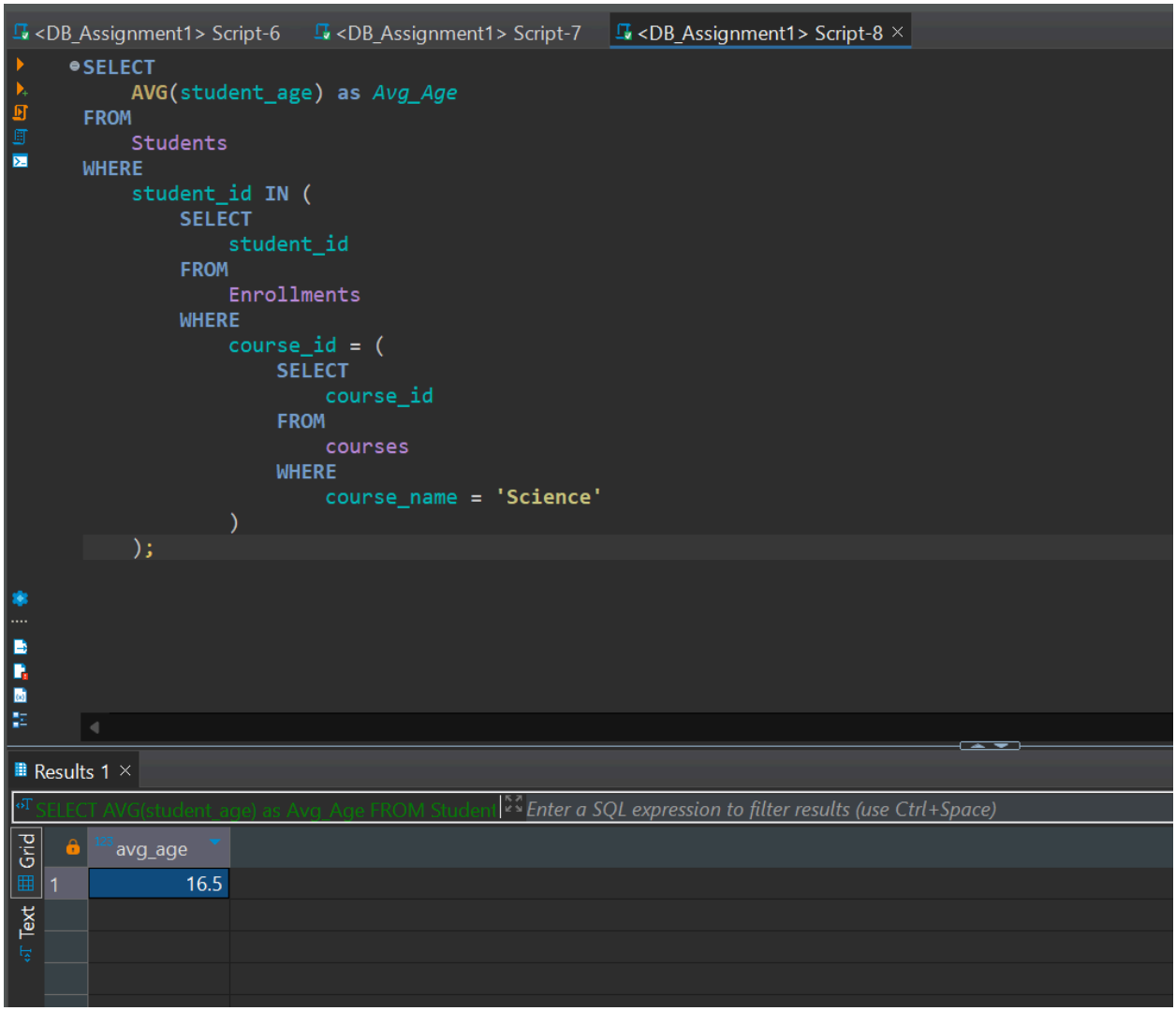
Q8.

```sql
SELECT
  student_name
FROM
  Students
WHERE
  student_id NOT IN (
    SELECT
      student_id
    FROM
      Enrollments
    GROUP BY
      student_id
    HAVING
      COUNT(course_id) > 0
  );
```



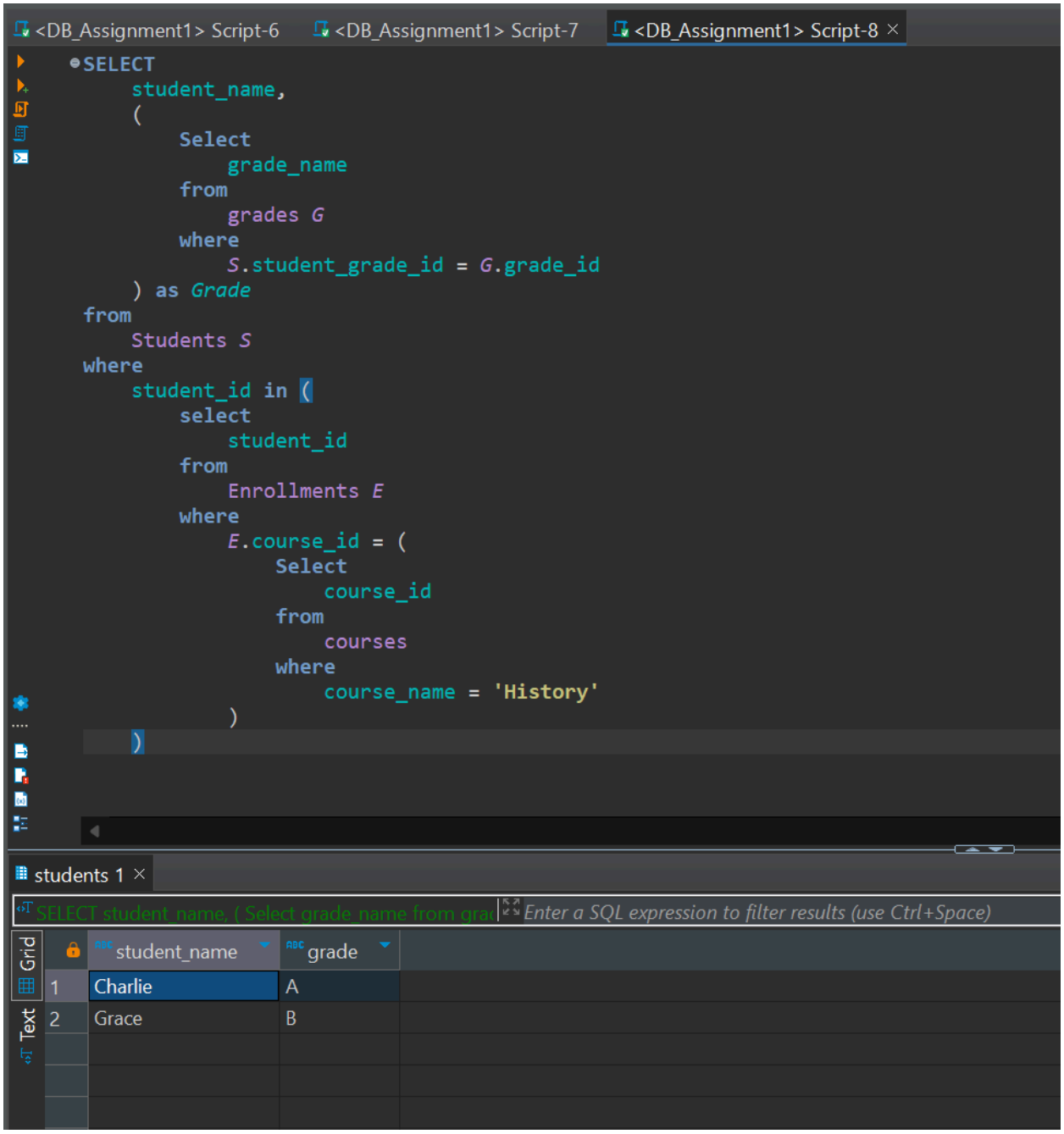
Q9.

```sql
SELECT
  AVG(student_age) as Avg_Age
FROM
  Students
WHERE
  student_id IN (
    SELECT
      student_id
    FROM
      Enrollments
    WHERE
      course_id = (
        SELECT
          course_id
        FROM
          courses
        WHERE
          course_name = 'Science'
      )
  );
```


<DB_Assignment1> Script-6
<DB_Assignment1> Script-7
<DB_Assignment1> Script-8
SELECT
AVG(student_age) as Avg_Age
FROM
Students
WHERE
student_id IN (
SELECT
student_id
FROM
Enrollments
WHERE
course_id = (
SELECT
course_id
FROM
courses
WHERE
course_name = 'Science'
)
);
Results 1
SELECT AVG(student_age) as Avg_Age FROM Student
Enter a SQL expression to filter results (use Ctrl+Space)
Grid
Text
avg_age
1
16.5

Q10.

```sql
SELECT
  student_name,
  (
    Select
      grade_name
    from
      grades G
    where
      S.student_grade_id = G.grade_id
  ) as Grade
from
  Students S
where
  student_id in (
    select
      student_id
    from
      Enrollments E
    where
      E.course_id = (
        Select
          course_id
        from
          courses
        where
          course_name = 'History'
      )
  )
```


<DB_Assignment1> Script-6
<DB_Assignment1> Script-7
<DB_Assignment1> Script-8
SELECT
student_name,
(
Select
grade_name
from
grades G
where
S.student_grade_id = G.grade_id
) as Grade
from
Students S
where
student_id in (
select
student_id
from
Enrollments E
where
E.course_id = (
Select
course_id
from
courses
where
course_name = 'History'
)
)
students 1
SELECT student_name, ( Select grade_name from gra
Enter a SQL expression to filter results (use Ctrl+Space)
Grid
Text
student_name
grade
1
Charlie
A
2
Grace
B

ERD of book store.