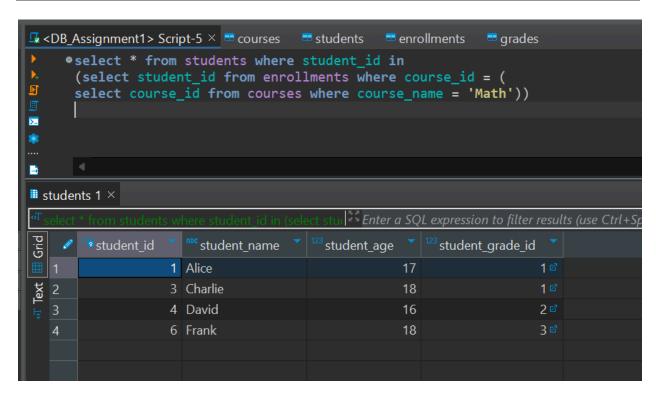
## Q1.

```
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'));
```

```
Script-5 × ■ courses ■ students ■ enrollments ■ grades

Select * from courses where course_id in

(select course_id from enrollments where student_id = (
select student_id from students where student_name = 'Bob'))

courses 1 ×

Courses 1 ×

Course id ■ course id in (select course)

Enter a SQL expression to filter results (use Ctrl+1)

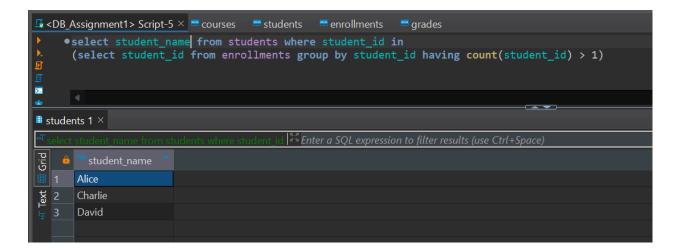
Course_id ■ course_name ■ course id in (select course)

Course_id ■ course_name ■ course id in (select course)

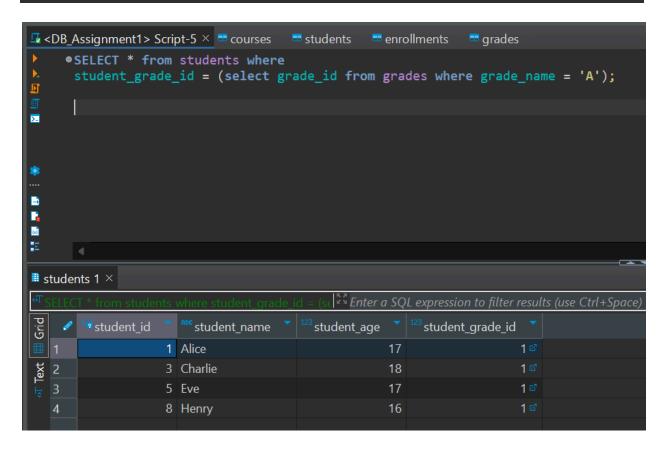
Course_id ■ course_name ■ course id in (select course)
```

#### Q3.

select student\_name from students where student\_id in
(select student\_id from enrollments group by student\_id having count(student\_id) > 1);



# SELECT \* from students where student\_grade\_id = (select grade\_id from grades where grade\_name = 'A');



# Q5.

```
SELECT

c.course_name,

COUNT(e.student_id) AS students

FROM

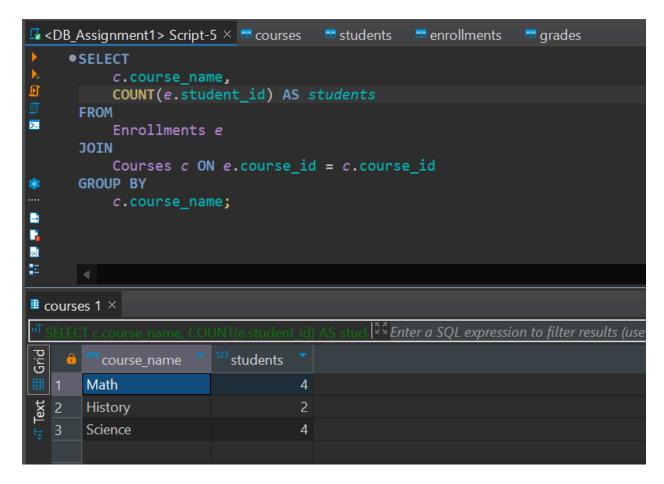
Enrollments e

JOIN

Courses c ON e.course_id = c.course_id

GROUP BY

c.course_name;
```



Q6.

select course\_name from courses where course\_id = (select max(course\_id) from enrollments);

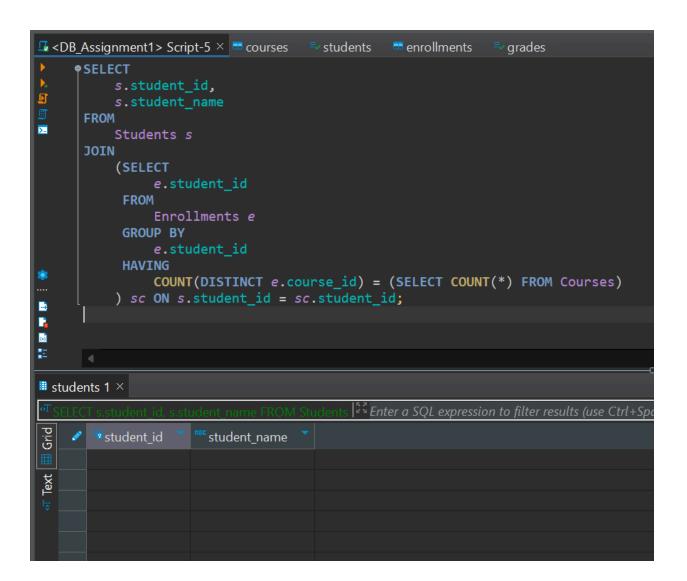
```
select course_name from courses where course_id =
(select max(course_id) from enrollments);

courses 1 ×

Tested course name from courses where course id = 
Figure 1 + First | F
```

# Q7.

```
SELECT
    s.student_id,
    s.student_name
FROM
    Students s
JOIN
    (SELECT
        e.student_id
    FROM
        Enrollments e
    GROUP BY
        e.student_id
    HAVING
        COUNT(DISTINCT e.course_id) = (SELECT COUNT(*) FROM Courses)
    ) sc ON s.student_id = sc.student_id;
```



# Q8.

```
s.student_id,
s.student_name

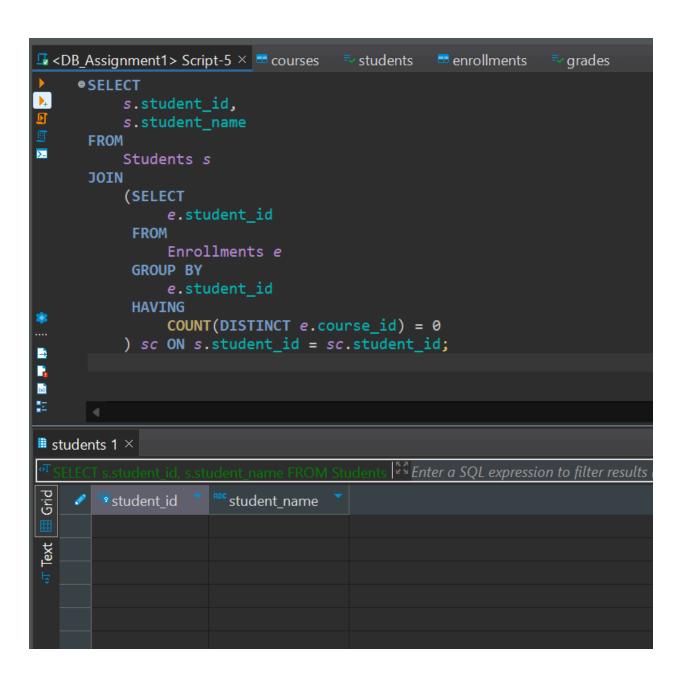
FROM
Students s

JOIN
(SELECT
    e.student_id

FROM
    Enrollments e

GROUP BY
    e.student_id

HAVING
    COUNT(DISTINCT e.course_id) = 0
) sc ON s.student_id = sc.student_id;
```



```
SELECT

AVG(s.student_age) AS average_age

FROM

Students s

JOIN

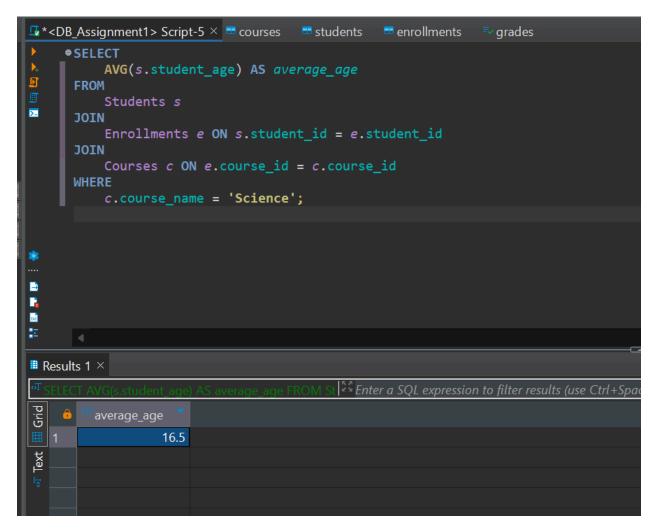
Enrollments e ON s.student_id = e.student_id

JOIN

Courses c ON e.course_id = c.course_id

WHERE

c.course_name = 'Science';
```



## Q10.

```
student_name, grade_name

from

grades g

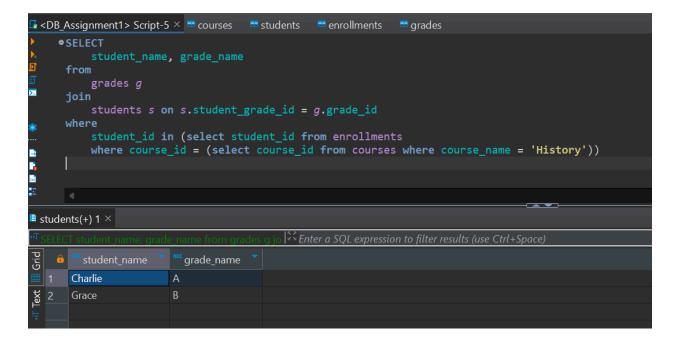
join

students s on s.student_grade_id = g.grade_id

where

student_id in (select student_id from enrollments

where course_id = (select course_id from courses where course_name = 'History'))
```



## ERD of book store.

