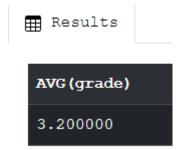
### **Business Analytics | SQL Test Questions**

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1. Find the average grade of all students across all courses:

#### **Query:**

SELECT AVG(grade)
FROM Enrollments;



2. List the names of students along with the courses they are enrolled in:

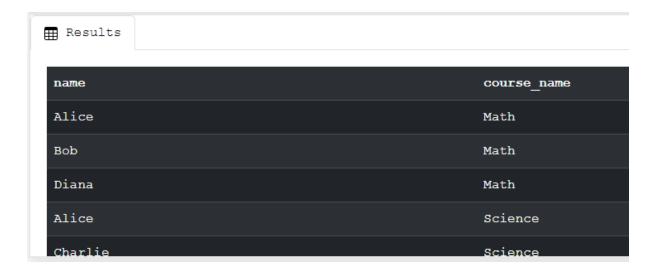
#### **Query:**

SELECT s.name, c.course\_name

FROM Enrollments e

JOIN Students s ON e.student\_id = s.student\_id

JOIN Courses c ON e.course\_id = c.course\_id;



## 3. Count the number of students in each grade level:

#### **Query:**



grade_level	COUNT(student_id)
3	3
4	2

## 4. Find the maximum grade achieved in each course:

#### **Query:**

SELECT c.course\_name, MAX(e.grade)

FROM Enrollments e

JOIN Courses c ON e.course\_id = c.course\_id

GROUP BY c.course\_name;

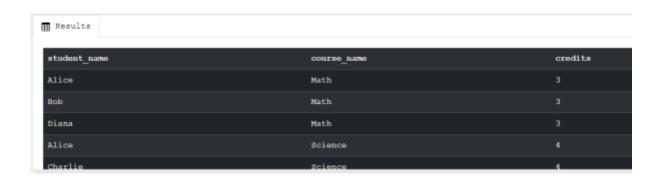


course_name	MAX(e.grade)
Math	3.50
Science	4.00
History	4.00
Art	3.50

# 5. Write a query to find the average grade of students who are in grade level 3 Query:

6. Write a query to get a list of students, their enrolled courses, and the credit hours for each course.

#### **Query:**



# 7. Write a query to find all courses that have an average grade greater than 3.0

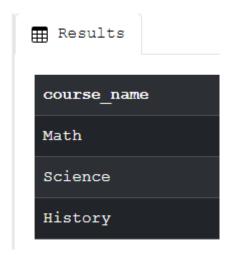
#### **Query:**

FROM Enrollments e

JOIN Courses c ON e.course\_id = c.course\_id

GROUP BY c.course\_name

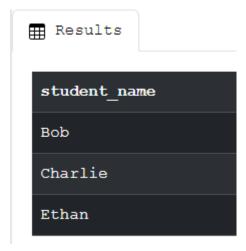
HAVING AVG(e.grade) > 3.0;



## 8. Write a query to find students who have not received a grade of 4.0 in any course.

#### **Query:**

```
SELECT DISTINCT s.name AS student_name
FROM Students s
WHERE s.student_id NOT IN (
    SELECT student_id
    FROM Enrollments
    WHERE grade = 4.0);
```



9. Write a query to find the names of students whose average grade is greater than the average grade of all students.

#### **Query:**

WITH StudentAverage AS (

SELECT student\_id, AVG(grade) AS avg\_grade

FROM Enrollments

GROUP BY student\_id)

SELECT s.name

FROM Students s

JOIN StudentAverage sa ON s.student\_id = sa.student\_id

WHERE sa.avg\_grade > (SELECT AVG(grade) FROM Enrollments);



# 10. Write a query to display each student's name, the total number of courses they are enrolled in, and their average grade. <u>Ouery:</u>

FROM Students s

student_name	total_courses	average_grade
Alice	2	3.750000
Bob	2	2.750000
Charlie	2	2.500000
Diana	2	3.750000
Ethan	2	3.250000