

Learn with Ankit Bansal



100 Coding Problems



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100 DAY CODING PROBLEMS

Step - 1 : Problem Statement

 **Problem Statement:**

11 - MATH CHAMPIONS

You are provided with two tables: Students and Grades. Write a SQL query to find students who have higher grade in Math than the average grades of all the students together in Math. Display student name and grade in Math order by grades.

 **Difficult Level : EASY**

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Step - 2 : Identifying The Input Data And Expected

INPUT

students		
STUDENT_ID	STUDENT_NAME	CLASS_ID
1	John Doe	1
2	Jane Smith	2
3	Alice Johnson	1
4	Bob Brown	3
5	Emily Clark	2
6	Michael Lee	1
7	Sarah Taylor	3
8	David Martinez	2
9	Laura White	3
10	Chris Wilson	1

grades		
STUDENT_ID	SUBJECT	GRADE
1	Math	85
2	Math	78
3	Math	92
4	Math	79
5	Math	88
6	Math	95
7	Math	83

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8	Math	90
9	Math	86
10	Math	82
1	Science	75
2	Science	82
3	Science	88
4	Science	70
5	Science	79
6	Science	85
7	Science	77
8	Science	90
9	Science	84
10	Science	81
1	English	88
2	English	85
3	English	92
4	English	80
5	English	75
6	English	89
7	English	86
8	English	91
9	English	83
10	English	87
1	History	70
2	History	82
3	History	88
4	History	75
5	History	78
6	History	90

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7	History	83
8	History	88
9	History	82
10	History	85

OUTPUT

STUDENT_NAME	GRADE
Laura White	86
Emily Clark	88
David Martinez	90
Alice Johnson	92
Michael Lee	95

Step - 3 : Writing the sql query to solve the



```
SELECT S.student_name,G.student_id
FROM grades G
join
students S on G.student_id=S.student_id
WHERE subject = 'Math'
      AND grade ≥ (
      SELECT avg(grade) AS avg_math
      FROM grades
      WHERE subject = 'Math'
      )
```



Save

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