

1. [Japanese Cities' Names](#)

QUERY:

SELECT C.NAME FROM CITY C WHERE C.COUNTRYCODE = 'JPN';

The screenshot shows the HackerRank interface for the 'Japanese Cities' Names problem. The problem description asks to query the names of all Japanese cities in the CITY table where the COUNTRYCODE is 'JPN'. The CITY table schema is shown as follows:

Field	Type
ID	NUMBER
NAME	VARCHAR2(17)
COUNTRYCODE	VARCHAR2(3)
DISTRICT	VARCHAR2(20)
POPULATION	NUMBER

The query input field contains the SQL query: `SELECT C.NAME FROM CITY C WHERE C.COUNTRYCODE = 'JPN';`. The interface also shows a 'Run Code' button and a 'Submit Code' button. The output section shows 'Sample Test case 0' with a 'Your Output (stdout)' field.

2. [Weather Observation Station 3](#)

QUERY:

SELECT DISTINCT S.CITY FROM STATION S WHERE MOD(ID,2) = 0;

The screenshot shows the HackerRank interface for the 'Weather Observation Station 3' problem. The problem description asks to query a list of CITY names from the STATION table for cities that have an even ID number. The STATION table schema is shown as follows:

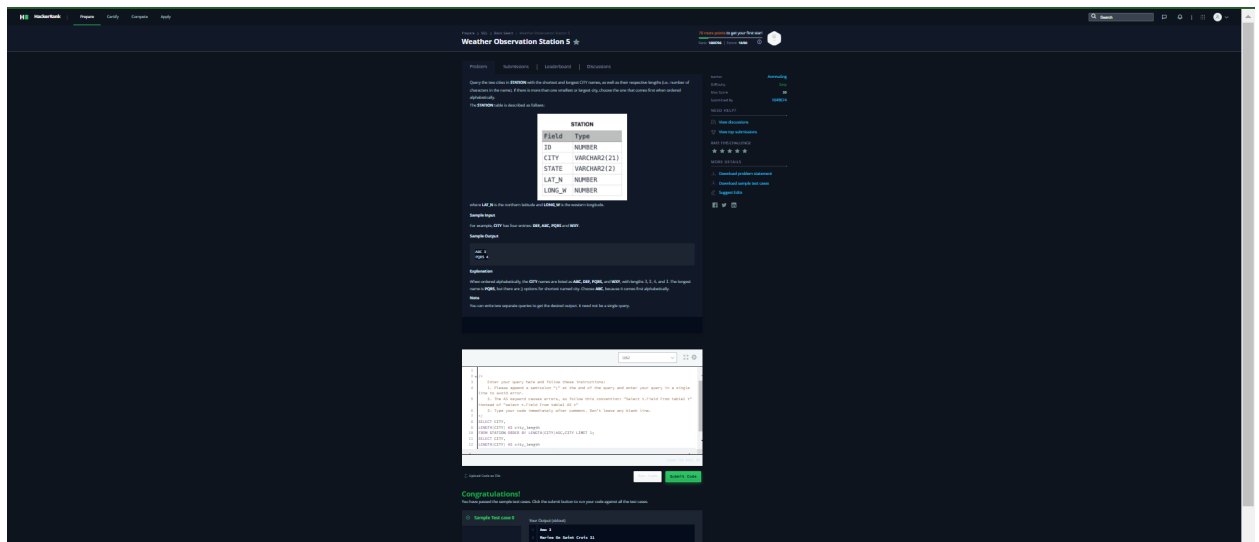
Field	Type
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)
LAT_N	NUMBER
LONG_W	NUMBER

The query input field contains the SQL query: `SELECT DISTINCT S.CITY FROM STATION S WHERE MOD(ID, 2) = 0;`. The interface also shows a 'Run Code' button and a 'Submit Code' button. The output section shows 'Sample Test case 0' with a 'Your Output (stdout)' field.

3. [Weather Observation Station 5](#)

QUERY:

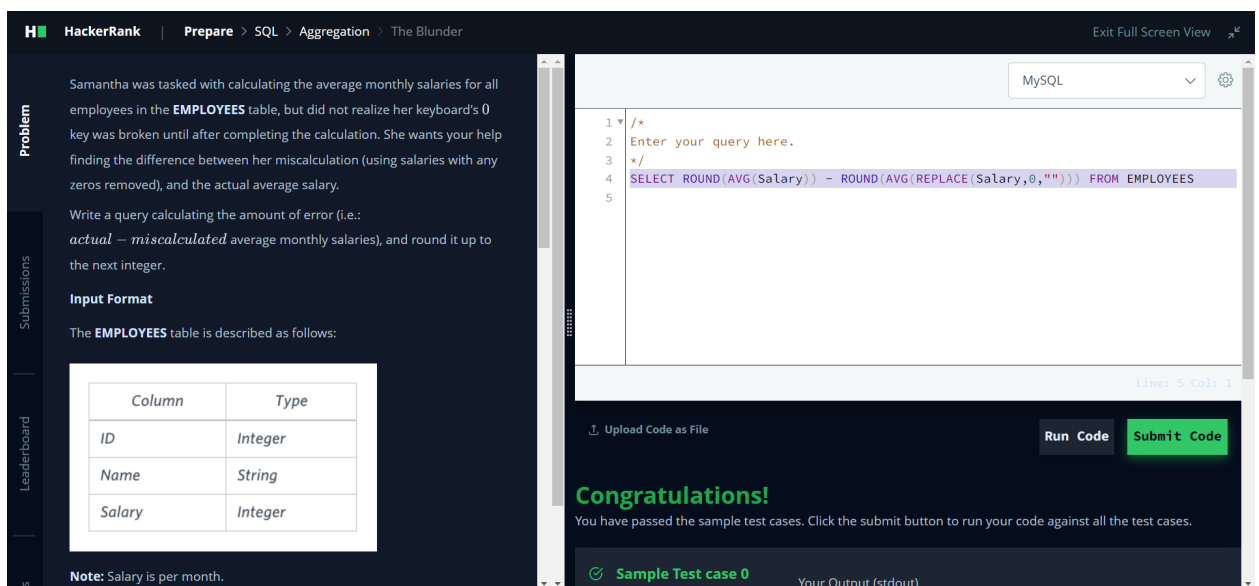
```
SELECT CITY,  
LENGTH(CITY) AS city_length  
FROM STATION ORDER BY LENGTH(CITY)ASC,CITY LIMIT 1;  
SELECT CITY,  
LENGTH(CITY) AS city_length  
FROM STATION ORDER BY LENGTH(CITY)DESC, CITY LIMIT 1;
```



4. [The Blunder](#)

QUERY:

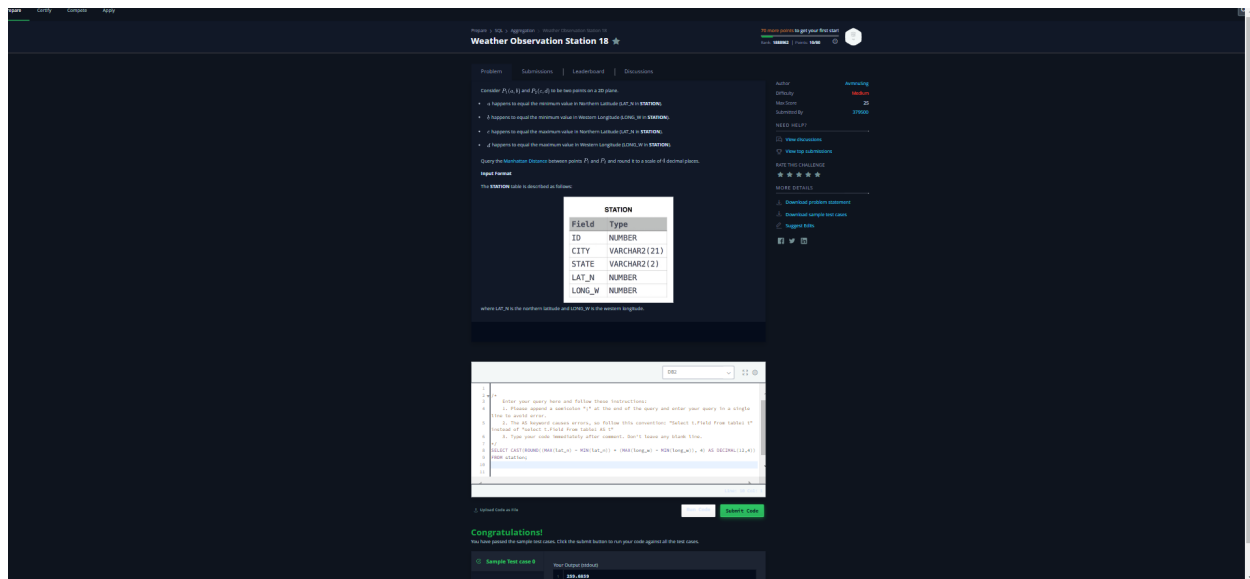
```
SELECT ROUND(AVG(Salary)) - ROUND(AVG(REPLACE(Salary,0,""))) FROM  
EMPLOYEES
```



5. [Weather Observation Station 1](#)

QUERY:

```
SELECT CAST(ROUND((MAX(lat_n) - MIN(lat_n)) + (MAX(long_w) - MIN(long_w)), 4)
AS DECIMAL(12,4))
FROM station;
```



6. [Average Population of Each Continent](#)

QUERY:

```
SELECT
    COUNTRY.continent AS continent,
    FLOOR(AVG(CITY.population)) AS population
FROM
    CITY
    INNER JOIN COUNTRY ON CITY.countrycode = COUNTRY.code
WHERE
    COUNTRY.continent IS NOT NULL
GROUP BY
    COUNTRY.continent;
```

Average Population of Each Continent ★

18 more points to get your best rank

Rank: 166576 / Points: 16.00

Problem Submissions Leaderboard Discussions

Given the **CITY** and **COUNTRY** tables, query the names of all the continents (**COUNTRY.Continent**) and their respective average city populations (**CITY.Population**) rounded down to the nearest integer.

Note: CITY.CountryCode and COUNTRY.Code are matching key columns.

Input Format

The **CITY** and **COUNTRY** tables are described as follows:

CITY	
Field	Type
ID	NUMBER
NAME	VARCHAR2(17)
COUNTRYCODE	VARCHAR2(3)
DISTRICT	VARCHAR2(20)
POPULATION	NUMBER

COUNTRY	
Field	Type
CODE	VARCHAR2(3)
NAME	VARCHAR2(44)
CONTINENT	VARCHAR2(13)
REGION	VARCHAR2(25)
SURFACEAREA	NUMBER
INDEPYEAR	VARCHAR2(5)
POPULATION	NUMBER
LIFEEXPECTANCY	VARCHAR2(4)
GDP	NUMBER
GDPOLD	VARCHAR2(9)
LOCALNAME	VARCHAR2(44)
GOVERNMENTFORM	VARCHAR2(44)
HEADOFSTATE	VARCHAR2(32)
CAPITAL	VARCHAR2(4)
CODE2	VARCHAR2(2)

Author: edhrange

Difficulty: Easy

Max Score: 10

Submitted By: 461796

W3.0: 10.171

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```

1 SELECT
2   COUNTRY.continent AS continent,
3   FLOOR(SUM(CITY.population)) AS population
4 FROM
5   CITY
6   INNER JOIN COUNTRY ON CITY.countrycode = COUNTRY.code
7 WHERE
8   COUNTRY.continent IS NOT NULL
9 GROUP BY
10  COUNTRY.continent;

```

[Upload Solution File](#)

[Run Code](#)

[Submit Code](#)

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

Sample Test case 0

Your Output (Ideal)

```

1 Asia 6636166
2 Europe 3761166
3 America 3661166
4 South America 1476166
5 Africa 3766166

```

7. [The PADS](#)

QUERY:

SELECT

CONCAT(NAME, '(', LEFT(OCCUPATION, 1), ')') AS formatted_name

FROM

OCCUPATIONS

ORDER BY

NAME;

SELECT

CONCAT('There are a total of ', COUNT(*), ' ', LOWER(OCCUPATION), 's.') AS
formatted_name

FROM

OCCUPATIONS

GROUP BY

OCCUPATION

ORDER BY

COUNT(*), OCCUPATION;

The OCCUPATIONS table is described as follows:

Column	Type
Name	String
Occupation	String

Occupation will only contain one of the following values: Scientist, Professor, Singer or Actor.

Sample Input

An OCCUPATIONS table that contains the following records:

Name	Occupation
Samantha	Doctor
Julia	Actor
Marie	Actor
Meera	Singer
Ashley	Professor
Kelly	Professor
Christeen	Professor
Jane	Actor
Jessy	Doctor
Phya	Singer

Sample Output

```
Ashley(P)
Christeen(P)
Jane(A)
Janae(A)
Jessy(D)
Julia(A)
Kelly(P)
Marie(A)
Meera(S)
Phya(S)
Samantha(D)

There are a total of 3 doctors.
There are a total of 3 singers.
There are a total of 3 actors.
There are a total of 3 professors.
```

Explanation

The results of the first query are formatted to the problem description's specifications.

The results of the second query are ascendingly ordered first by number of names corresponding to each profession (3 < 2 < 2 < 2), and then alphabetically by profession (doctor < singer, and actor < professor).

```
1 --
2 Enter your query here.
3 --
4 SELECT
5     CONCAT(NAME, '(', LEFT(OCCUPATION, 1), ')') AS formatted_name
6 FROM
7     OCCUPATIONS
8 ORDER BY
9     NAME;
10
11 SELECT
12     CONCAT('There are a total of ', COUNT(*), ' ', LOWER(OCCUPATION), 's.') AS formatted_name
13 FROM
14     OCCUPATIONS
15 GROUP BY
16     OCCUPATION
17 ORDER BY
18     COUNT(*), OCCUPATION;
19
20
21
22
```

Upload Code as File Run Code Submit Code

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

Sample Test case 0

Real Output (Hidden)

1 AnnaLee(S)
2 AshLee(P)
3 BarLee(P)
4 BarLee(P)
5 ChrLee(S)
6 Eve(A)
7 Jane(A)
8 JaneLee(A)
9 Jessy(S)
10 JuliLee(S)
11 Kelly(A)
12 Kristeen(S)

8. [Type of Triangle](#) (Use Case statement)

QUERY:

SELECT

CASE

WHEN $A + B \leq C$ OR $A + C \leq B$ OR $B + C \leq A$ THEN 'Not A Triangle'

WHEN $A = B$ AND $B = C$ THEN 'Equilateral'

WHEN $A = B$ OR $B = C$ OR $A = C$ THEN 'Isosceles'

ELSE 'Scalene'

END AS TriangleType

FROM

TRIANGLES;

Type of Triangle



Problem Submissions Leaderboard Discussions

Write a query identifying the type of each record in the **TRIANGLES** table using its three side lengths. Output one of the following statements for each record in the table:

- **Equilateral**: It's a triangle with 3 sides of equal length.
- **Isosceles**: It's a triangle with 2 sides of equal length.
- **Scalene**: It's a triangle with 3 sides of differing lengths.
- **Not A Triangle**: The given values of A, B, and C don't form a triangle.

Input Format

The **TRIANGLES** table is described as follows:

Column	Type
A	Integer
B	Integer
C	Integer

Each row in the table denotes the lengths of each of a triangle's three sides.

Sample Input

A	B	C
20	20	23
20	20	20
20	21	22
12	14	35

Sample Output

```
Equilateral
Isosceles
Scalene
Not A Triangle
```

Explanation

Values in the tuple (20, 20, 23) form an isosceles triangle, because $A \neq B$.
 Values in the tuple (20, 20, 20) form an equilateral triangle, because $A \neq B \neq C$. Values in the tuple (20, 21, 22) form a scalene triangle, because $A \neq B \neq C$.
 Values in the tuple (12, 14, 35) cannot form a triangle because the combined value of sides A and B is not larger than that of side C.

Author

Amrutha Jay

Difficulty

Easy

Max Score

20

Submitted By

619671

SQL HINTS

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9. [Weather Observation Station 13](#)

QUERY:

```
SELECT CAST(ROUND(SUM(lat_n), 4) AS DECIMAL(12, 4))  
FROM STATION  
WHERE lat_n > 38.7880 AND lat_n < 137.2345;
```

Prepare > SQL > Aggregation > Weather Observation Station 13

Weather Observation Station 13 ★

70 more points to get your first star
Rank: 188818 | Points: 10/10

Problem | Submissions | Leaderboard | Discussions

Query the sum of Northern Latitudes (LAT_N) from **STATION** having values greater than 38.7880 and less than 137.2345. Truncate your answer to 1 decimal places.

Input Format

The **STATION** table is described as follows:

STATION	
Field	Type
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)
LAT_N	NUMBER
LONG_W	NUMBER

where LAT_N is the northern latitude and LONG_W is the western longitude.

Author: **Amnuzing**

Difficulty: **Easy**

Max Score: **10**

Submitted By: **423156**

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MySQL

```
1 /*  
2 Enter your query here.  
3 */  
4 SELECT CAST(ROUND(SUM(lat_n), 4) AS DECIMAL(12, 4))  
5 FROM STATION  
6 WHERE lat_n > 38.7880 AND lat_n < 137.2345;  
7
```

Lines: 5, Cols: 33

[Upload Code as File](#) [Run Code](#) [Submit Code](#)

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

Sample Test case 0

Your Output (stdout)

1 36354.8135

10. [The Report](#)

QUERY:

```
SELECT IF(G.Grade >7 ,S.Name, NULL), G.Grade, S.Marks
```

```
FROM Students AS S
```

```
JOIN Grades AS G ON S.Marks >=G.Min_Mark AND S.Marks <=G.Max_Mark
```

```
ORDER BY 2 DESC, S.Name
```

Name	String
Marks	Integer

Students contains the following data:

Grade	Max_Mark	Min_Mark
1	0	9
2	10	19
3	20	29
4	30	39
5	40	49
6	50	59
7	60	69
8	70	79
9	80	89
10	90	100

Kelly gives you a task to generate a report containing three columns: Name, Grade and Mark. Kelly doesn't want the NAMES of those students who received a grade lower than 8. The report must be in descending order by grade - i.e. higher grades are entered first. If there is more than one student with the same grade (e.g. 10) assigned to them, order those particular students by their names alphabetically. Finally, if the grade is lower than 8, use "N/A" as their name and list them by their grades in descending order. If there is more than one student with the same grade (e.g. 7) assigned to them, order those particular students by their marks in ascending order.

Write a query to help her.

Sample Input

ID	Name	Marks
1	Alice	88
2	Samantha	68
3	Maria	99
4	Scarlett	78
5	Ashley	63
6	Jane	81

Sample Output

```

Maria 10 99
Jane 9 81
Julia 8 88
Samantha 6 68
Ashley 6 63
N/A 7 85
N/A 7 86

```

Note

Print "N/A" as the name if the grade is less than 8.

Explanation

Consider the following table with the grades assigned to the students:

ID	Name	Marks	Grade
1	Julia	88	9
2	Samantha	68	7
3	Maria	99	10
4	Scarlett	78	8
5	Ashley	63	7
6	Jane	81	9

So, the following students got 8, 9 or 10 grades:

- Maria (grade 10)
- Jane (grade 9)
- Julia (grade 9)
- Scarlett (grade 8)

MySQL

```

1 --
2 -- Enter your query here.
3 --
4 SELECT IF(Grade < 8, 'N/A', S.Name), S.ID, S.Grade, S.Marks FROM Students AS S ORDER BY S.Grade DESC, S.Name

```

1. Display Data as File

Run Query

Submit Code

Congratulations!

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