

### Hacker Rank Questions

Q1. Query all columns for a city in **CITY** with the *ID* 1661.

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

#### CITY

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

Answer:-

SQL Query - `SELECT * FROM CITY WHERE ID = 1661;`

#### OUTPUT

The screenshot shows the HackerRank interface for a SQL problem. On the left, the problem description includes the **CITY** table schema:

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

The main area shows the SQL query: `SELECT * FROM CITY WHERE ID = 1661;`. Below the query editor, there are buttons for "Run Code" and "Submit Code". A green "Congratulations!" message indicates that the sample test case has passed. The output section shows the result of the query:

```
1 1661 Sayama JPN Saitama 162472
```

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Enrollment no – 24BSP1571

Subject – Information System  
for Managers

Q2. Write a query that prints a list of employee names (i.e.: the *name* attribute) from the **Employee** table in alphabetical order.

### Input Format

The **Employee** table containing employee data for a company is described as follows:

Column	Type
employee_id	Integer
name	String
months	Integer
salary	Integer

where *employee\_id* is an employee's ID number, *name* is their name, *months* is the total number of months they've been working for the company, and *salary* is their monthly salary.

### Sample Input

employee_id	name	months	salary
12228	Rose	15	1968
33645	Angela	1	3443
45692	Frank	17	1608
56118	Patrick	7	1345
59725	Lisa	11	2330
74197	Kimberly	16	4372
78454	Bonnie	8	1771
83565	Michael	6	2017
98607	Todd	5	3396
99989	Joe	9	3573

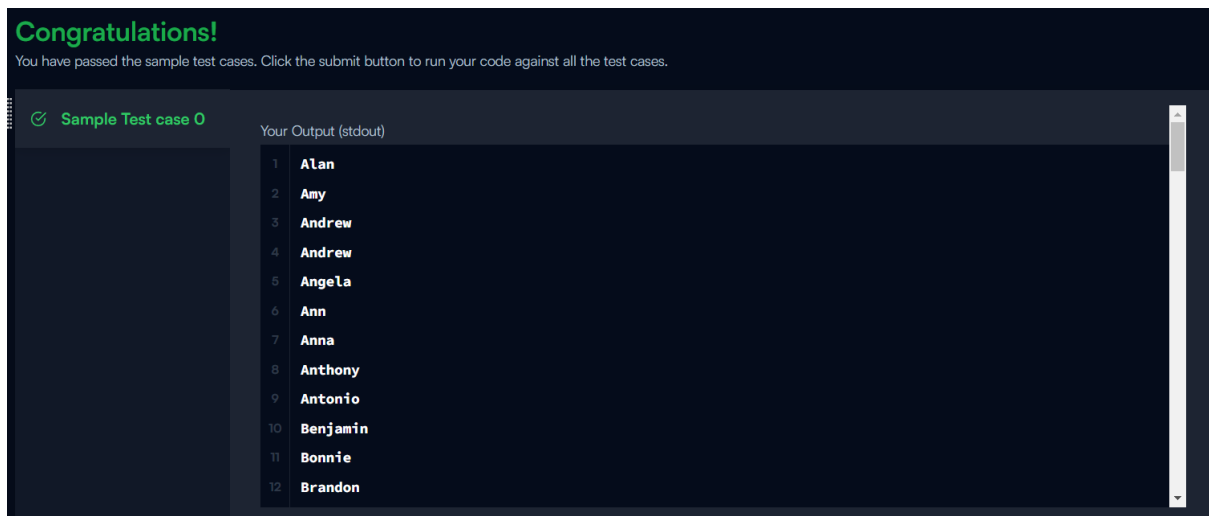
Answer:

SQL Query - SELECT name FROM Employee ORDER BY name ASC;

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## OUTPUT



The screenshot shows a dark-themed interface for a code execution environment. At the top, a green 'Congratulations!' message is displayed, followed by a note: 'You have passed the sample test cases. Click the submit button to run your code against all the test cases.' Below this, a section titled 'Sample Test case 0' is visible. To the right of this title, the text 'Your Output (stdout)' is shown. The output area contains a list of 12 names, each preceded by a line number from 1 to 12. The names are: Alan, Amy, Andrew, Andrew, Angela, Ann, Anna, Anthony, Antonio, Benjamin, Bonnie, and Brandon. A vertical scrollbar is present on the right side of the output area.

```
1 Alan
2 Amy
3 Andrew
4 Andrew
5 Angela
6 Ann
7 Anna
8 Anthony
9 Antonio
10 Benjamin
11 Bonnie
12 Brandon
```

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Course – PGPM

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Q3. Query all columns (attributes) for every row in the **CITY** table.

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

### CITY

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

Answer:

SQL Query - `SELECT * FROM CITY;`

### OUTPUT

### 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 6 Rotterdam NLD Zuid-Holland 593321
2 3878 Scottsdale USA Arizona 202705
3 3965 Corona USA California 124966
4 3973 Concord USA California 121780
5 3977 Cedar Rapids USA Iowa 120758
6 3982 Coral Springs USA Florida 117549
7 4054 Fairfield USA California 92256
8 4058 Boulder USA Colorado 91238
9 4061 Fall River USA Massachusetts 90555
```

Expected Output

```
1 6 Rotterdam NLD Zuid-Holland 593321
```

Download

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Q4. Query all attributes of every Japanese city in the **CITY** table. The **COUNTRYCODE** for Japan is JPN.

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

### CITY

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

Answer:

SQL Query - Select \* from CITY WHERE COUNTRYCODE = 'JPN';

OUTPUT

## 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 1613 Neyagawa JPN Osaka 257315
2 1630 Ageo JPN Saitama 209442
3 1661 Sayama JPN Saitama 162472
4 1681 Omuta JPN Fukuoka 142889
5 1739 Tokuyama JPN Yamaguchi 107078
```

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Q5. Query the names of all the Japanese cities in the **CITY** table. The **COUNTRYCODE** for Japan is JPN.

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

### CITY

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

Answer:

SQL Query: Select name from CITY WHERE COUNTRYCODE = 'JPN';

OUTPUT

## 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  Neyagawa
2  Ageo
3  Sayama
4  Omuta
5  Tokuyama
```

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Q6. Query a list of **CITY** and **STATE** from the **STATION** table.

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.

Answer:

SQL Query - Select CITY,STATE from STATION;

### OUTPUT

## 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  Kissee Mills MO
2  Loma Mar CA
3  Sandy Hook CT
4  Tipton IN
5  Arlington CO
6  Turner AR
7  Slidell LA
8  Negreet LA
9  Glencoe KY
10 Chelsea IA
11 Chignik Lagoon AK
12 Pelahatchie MS
```

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Q7. Write a query that prints a list of employee names (i.e.: the *name* attribute) for employees in **Employee** having a salary greater than per month who have been employees for less than months. Sort your result by ascending *employee\_id*.

### Input Format

The **Employee** table containing employee data for a company is described as follows:

Column	Type
employee_id	Integer
name	String
months	Integer
salary	Integer

where *employee\_id* is an employee's ID number, *name* is their name, *months* is the total number of months they've been working for the company, and *salary* is the their monthly salary.

Answer:

SQL Query - SELECT NAME FROM EMPLOYEE WHERE SALARY>2000 AND MONTHS<10 ORDER BY EMPLOYEE\_ID ASC;

### OUTPUT

## 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

Rose

2

Patrick

3

Lisa

4

Amy

5

Pamela

6

Jennifer

7

Julia

8

Kevin

9

Paul

10

Donna

11

Michelle

12

Christina