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EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 9 DISCUSSION

Actual exam question from Google's Professional Data Engineer

Question #: 9

Topic #: 1

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Your company is using WILDCARD tables to query data across multiple tables with similar names. The SQL statement is currently failing with the following error:

```
# Syntax error : Expected end of statement but got "-" at [4:11]
SELECT age
FROM
  bigquery-public-data.noaa_gsod.gsod
WHERE
  age != 99
  AND _TABLE_SUFFIX = '1929'
ORDER BY
  age DESC
```

Which table name will make the SQL statement work correctly?

- A. 'bigquery-public-data.noaa_gsod.gsod'
- B. bigquery-public-data.noaa_gsod.gsod*
- C. 'bigquery-public-data.noaa_gsod.gsod'*
- D. 'bigquery-public-data.noaa_gsod.gsod*'

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by [AWSandeep](#) at Sept. 3, 2022, 6:48 a.m.

Comments

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  **Ender_H** Highly Voted  2 years, 7 months ago



None, the actual ``bigquery-public-data.noaa_gsod.gsod*`` with back ticks at the beginning and at the end.

   upvoted 34 times

  **Davijde13** 2 years, 3 months ago

I suspect there has been some typo with copy-paste of the option D

   upvoted 11 times

  **jitvimol** 1 year, 4 months ago

yes, I see from another source that actually ans D has to be backtick. Probably a problem when this web do data ingestion.

   upvoted 4 times

  **fassil** Most Recent  3 weeks, 4 days ago

Selected Answer: D

just read this guys : <https://cloud.google.com/bigquery/docs/querying-wildcard-tables>

   upvoted 1 times

  **Mariaantonirajc** 4 months, 2 weeks ago

Selected Answer: B

B This is the correct syntax. The wildcard * is outside any quotes or string delimiters. This tells BigQuery to query all tables that match the pattern `gsod*` within the `noaa_gsod` dataset.

   upvoted 1 times

  **sravi1200** 4 months, 2 weeks ago

Selected Answer: B

Big Query does not use quotations while fetching data from the table :
example: `select * from project-id.dataset_name.table_name;` is the syntax

   upvoted 1 times

  **vaga1** 7 months, 1 week ago

Selected Answer: D

let's forget the fact that in BQ is used ``` instead than `'` which retrieves an error in any case. ``` is called backquote, backtick, or left quote while `'` is simply an apostrophe. Let's consider `'` to be ``` in every answer, since moderators could have not been aware of such when they had received the question.

   upvoted 1 times

  **vaga1** 1 year, 11 months ago




Who used BQ knows that the backquote is necessary only for the project name, while it can be used for the whole string, and necessary only when the project name contains special (special in this specific context) characters.

- is a special character. so
``bigquery-public-data`.noaa_gsod.gsod1940`
would have worked too.

The question now turns out to be
``bigquery-public-data`.noaa_gsod.gsod*`
still works or due to the * presence we need to write
``bigquery-public-data.noaa_gsod.gsod*``
?

I personally do not remember, and I do not have a BQ at my disposal at the moment.

But I know for sure that
``bigquery-public-data.noaa_gsod.gsod*``
works while
``bigquery-public-data`.noaa_gsod.gsod*`
is not in the options.

   upvoted 2 times

  **rtcpost** 7 months, 1 week ago

Selected Answer: D

Option D (assuming to have backticks)

Refer: <https://cloud.google.com/bigquery/docs/querying-wildcard-tables>

The following query is NOT valid because it isn't properly quoted with backticks:

```
```
#standardSQL
/* Syntax error: Expected end of statement but got "-" at [4:11] */
SELECT
max
FROM
missing backticks
bigquery-public-data.noaa_gsod.gsod*
WHERE
max != 9999.9 # code for missing data
AND _TABLE_SUFFIX = '1929'
ORDER BY
max DESC
```
```

   upvoted 2 times

  **RT_G** 7 months, 1 week ago

Selected Answer: D

Reference: <https://cloud.google.com/bigquery/docs/querying-wildcard-tables>

The wildcard table name contains the special character (*), which means that you must enclose the wildcard table name in backtick (`) characters. For example, the following query is valid because it uses backticks:

```
#standardSQL
/* Valid SQL query */
SELECT
max
FROM
`bigquery-public-data.noaa_gsod.gsod*`
WHERE
max != 9999.9 # code for missing data
AND _TABLE_SUFFIX = '1929'
ORDER BY
max DESC
```

   upvoted 1 times

  **ABKR1300** 7 months, 1 week ago

Few might go with the Option B which will be a blunder because of the below reason.

While querying the tables or views with the name, it is optional to surround with the backticks. But while querying the list of tables with Wild card character, it is must to surround with the backticks.

We can get the Syntax error: Expected end of input but got "*" with the below query

```
SELECT * FROM bigquery-public-data.noaa_gsod.gsod*
WHERE _TABLE_SUFFIX = "2024"
```

So, option D might be the correct one, provided if there is a typo.

   upvoted 4 times

  **Chintu_573** 10 months, 2 weeks ago

Selected Answer: B

IN option D, there is differert ' ` ' on first and last. That's why right option is second.

   upvoted 1 times

  **dsyouness** 11 months, 2 weeks ago

Selected Answer: B

bigquery-public-data.noaa_gsod.gsod* also works

   upvoted 3 times

  **RT_G** 1 year, 5 months ago

Selected Answer: D

Agree with others - Option D

   upvoted 1 times

  **axantroff** 1 year, 6 months ago

Selected Answer: D

D. 'bigquery-public-data.noaa_gsod.gsod*' is the right answer with 1 typo

👍 ↩ 🚩 upvoted 1 times

🗨️ 👤 **Pavaan** 1 year, 11 months ago

Answer is 'D'

Reference : <https://cloud.google.com/bigquery/docs/wildcard-table-reference>

Enclose table names with wildcards in backticks

The wildcard table name contains the special character (*), which means that you must enclose the wildcard table name in backtick (`) characters.

👍 ↩ 🚩 upvoted 3 times

🗨️ 👤 **Melampos** 2 years ago

Selected Answer: B

bigquery-public-data.noaa_gsod.gsod* works

👍 ↩ 🚩 upvoted 2 times

🗨️ 👤 **hkhnhnhan** 2 years, 1 month ago

Selected Answer: B

should be B, the backtick at D answer is wrong ' instead of `

👍 ↩ 🚩 upvoted 1 times

🗨️ 👤 **hkhnhnhan** 2 years, 1 month ago

should be B, the backtick at D answer is wrong ' instead of `

👍 ↩ 🚩 upvoted 1 times

🗨️ 👤 **Zosby** 2 years, 2 months ago

D is correct

👍 ↩ 🚩 upvoted 1 times

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