

 Google Discussions



## Exam Professional Data Engineer All Questions

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### EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 118 DISCUSSION

Actual exam question from Google's Professional Data Engineer

Question #: 118

Topic #: 1

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You need to set access to BigQuery for different departments within your company. Your solution should comply with the following requirements:

- ⇒ Each department should have access only to their data.
- ⇒ Each department will have one or more leads who need to be able to create and update tables and provide them to their team.
- ⇒ Each department has data analysts who need to be able to query but not modify data.

How should you set access to the data in BigQuery?

- A. Create a dataset for each department. Assign the department leads the role of OWNER, and assign the data analysts the role of WRITER on their dataset.
- B. Create a dataset for each department. Assign the department leads the role of WRITER, and assign the data analysts the role of READER on their dataset.
- C. Create a table for each department. Assign the department leads the role of Owner, and assign the data analysts the role of Editor on the project the table is in.
- D. Create a table for each department. Assign the department leads the role of Editor, and assign the data analysts the role of Viewer on the project the table is in.

[Show Suggested Answer](#)

by  damaldon at Sept. 2, 2022, 5:22 p.m.

## Comments

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- 🗲️ 👤 **juliojs** Highly Voted 👍 2 years, 1 month ago  
Old question. It's done using IAM nowadays: `bigquery.dataEditor` and `bigquery.dataViewer`  
👍 ↩️ 🚩 upvoted 12 times
- 🗲️ 👤 **AWSandeep** Highly Voted 👍 2 years, 8 months ago  
Selected Answer: B  
B. Create a dataset for each department. Assign the department leads the role of WRITER, and assign the data analysts the role of READER on their dataset.  
👍 ↩️ 🚩 upvoted 9 times
- 🗲️ 👤 **SamuelTsch** Most Recent 🕒 6 months, 2 weeks ago  
Selected Answer: D  
No writer, reader role  
👍 ↩️ 🚩 upvoted 2 times
- 🗲️ 👤 **mothkuri** 1 year, 2 months ago  
Selected Answer: D  
WRITER role is not there in roles of BigQuery table/dataset  
👍 ↩️ 🚩 upvoted 2 times
- 🗲️ 👤 **Kalai\_1** 1 year, 4 months ago  
Answer : D. There is no role called WRITER or READER as preliminary role.  
👍 ↩️ 🚩 upvoted 2 times
- 🗲️ 👤 **forepick** 1 year, 11 months ago  
Selected Answer: B  
both C & D violate the principle of least privilege.  
A talks about OWNER and WRITER roles, and the analyst doesn't need a writer role.  
So we're left with B.  
👍 ↩️ 🚩 upvoted 2 times
- 🗲️ 👤 **Joane\_** 2 years ago  
Selected Answer: D  
<https://cloud.google.com/bigquery/docs/access-control#bigquery>  
👍 ↩️ 🚩 upvoted 1 times
- 🗲️ 👤 **midgoo** 2 years, 1 month ago  
Selected Answer: B  
B - Lead needs to have the role to create tables and also Analyst only need to read  
👍 ↩️ 🚩 upvoted 2 times
- 🗲️ 👤 **musumusu** 2 years, 2 months ago  
Answer B:  
Why not D, mentioned in question: Data lead will create tables in dataset. Imagine, other department leads are creating unnecessary tables in shared dataset and you are struggling to find your tables as everyday there are some new tables. Headache right ? better to give them separate dataset and do whatever you want in that dataset.  
👍 ↩️ 🚩 upvoted 5 times
- 🗲️ 👤 **xj\_kevin** 2 years, 2 months ago  
Vote B, both BD can fulfill the job requirement but B is on dataset level and D on project level. "By default, granting access to a project also grants access to datasets within it." D may issue unnecessary accesses to other content in the project.  
👍 ↩️ 🚩 upvoted 3 times
- 🗲️ 👤 **desertlotus1211** 2 years, 3 months ago  
Interestingly enough - I know believe the answer is A...  
Deleting is not the same as modify...  
👍 ↩️ 🚩 upvoted 1 times
- 🗲️ 👤 **desertlotus1211** 2 years, 3 months ago  
Answer is B: <https://cloud.google.com/bigquery/docs/access-control>  
The question ask for the lead to be able to:  
CREATE, UPDATE, and SHARE with the team...



BigQuery Data Owner can do that  
(roles/bigquery.dataOwner)  
When applied to a table or view, this role provides permissions to:

Read and update data and metadata for the table or view.  
Share the table or view.  
Delete the table or view.

Editor cannot do that.



Thoughts?

   upvoted 1 times

  **desertlotus1211** 2 years, 3 months ago

I apologize - I thought B said Owner...  
This questions makes no sense now...



   upvoted 1 times

  **odacir** 2 years, 4 months ago

**Selected Answer: D**

It's D, because this is an outdated question, before IAM you cannot set Editor to a dataset; but the best practice is: Create a dataset for each department. Assign the department leads the role of EDITOR(NOT OWNER), and assign the data analysts the role of READER on their dataset.

   upvoted 2 times

  **jkhong** 2 years, 4 months ago



Dude, I know there are updates to IAM, but the key point of the question is to have the leads have table creation and update roles... So they already need roles at the dataset level and hence C and D is out. We wouldn't be able to memorise all the roles, but clearly we cannot provide access on a table level...

   upvoted 7 times

  **Wonka87** 2 years, 4 months ago

and to supplement why does it need viewer role on the project the table is in?

   upvoted 1 times

  **Atnafu** 2 years, 5 months ago

Wow B is an answer

<https://cloud.google.com/bigquery/docs/access-control-basic-roles#dataset-basic-roles>

   upvoted 4 times

  **MisuLava** 2 years, 6 months ago



**Selected Answer: D**

It CANNOT BE B BECAUSE OF :




Caution: BigQuery's dataset-level basic roles existed prior to the introduction of IAM. We recommend that you minimize the use of basic roles. In production environments, don't grant basic roles unless there is no alternative. Instead, use predefined IAM roles.

<https://cloud.google.com/bigquery/docs/access-control-basic-roles>

   upvoted 2 times

  **desertlotus1211** 2 years, 3 months ago

Ummm owner is a predefined role  
<https://cloud.google.com/bigquery/docs/access-control>  
BigQuery Data Owner  
(roles/bigquery.dataOwner)

   upvoted 1 times

  **josrojgra** 2 years, 6 months ago

**Selected Answer: B**


I vote B because C and D says that the role is on the project that the table is in, this mean that the role is at the project level that implies that:

If you create a dataset in a project that contains any editors, BigQuery grants those users the bigquery.dataEditor predefined role for the new dataset. (from <https://cloud.google.com/bigquery/docs/access-control-basic-roles#project-basic-roles>)

A can't not be because the analysts, in this case, can access the data.

B grant to the leads update their datasets, that's mean create tables, and the analysts only read their datasets.

   upvoted 4 times

  **VipinSingla** 2 years, 6 months ago

**Selected Answer: D**

<https://cloud.google.com/bigquery/docs/access-control-basic-roles>

Caution: BigQuery's dataset-level basic roles existed prior to the introduction of IAM. We recommend that you minimize the use of basic roles. In production environments, don't grant basic roles unless there is no alternative. Instead, use predefined IAM roles.

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