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### **Exam Professional Data Engineer All Questions**

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## EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 252 DISCUSSION

Actual exam question from Google's Professional Data Engineer

Question #: 252

Topic #: 1

[All Professional Data Engineer Questions]

You are designing a data warehouse in BigQuery to analyze sales data for a telecommunication service provider. You need to create a data model for customers, products, and subscriptions. All customers, products, and subscriptions can be updated monthly, but you must maintain a historical record of all data. You plan to use the visualization layer for current and historical reporting. You need to ensure that the data model is simple, easy-to-use, and cost-effective. What should you do?

- A. Create a normalized model with tables for each entity. Use snapshots before updates to track historical data.
- B. Create a normalized model with tables for each entity. Keep all input files in a Cloud Storage bucket to track historical data.
- C. Create a denormalized model with nested and repeated fields. Update the table and use snapshots to track historical data.
- D. Create a denormalized, append-only model with nested and repeated fields. Use the ingestion timestamp to track historical data.

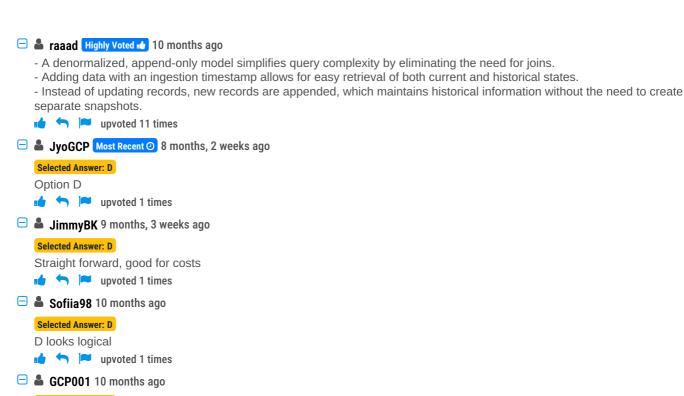
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by 8 scaenruy at *Jan. 3, 2024, 4:20 p.m.* 

# Comments

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#### Selected Answer: D

Easy, cost effective and no compexity

upvoted 1 times

☐ ♣ scaenruy 10 months ago

#### Selected Answer: D

D. Create a denormalized, append-only model with nested and repeated fields. Use the ingestion timestamp to track historical data.

upvoted 2 times

