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Module 1 quiz

15 questions

1.

Select choices about data characteristics that differentiate data warehouses from operational databases.

☐ Data warehouses are highly volatile.

☐ Data warehouses queries contain typically involve thousands of rows.

☐ Data warehouses contain only summary data.

☐ Data warehouses typically relax normalization levels.

2.

The performance limitation inhibiting usage of operational databases for higher level decision making was

○ Lack of optimizing compilers

○ Missing features for summary data

○ Lack of support for transaction processing.

○ Inability of a single database to support both transaction processing and business intelligence.

3.

Early DBMSs were lacking which type of feature for business intelligence processing?

○ Non procedural query languages

○ Optimizing compilers

○ Support for transaction processing

○ Features for summary data retrieval, storage, and optimization

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4.

The management reason inhibiting deployment of data warehouses was

○ Missing features for summary data

○ Lack of competition in the database industry

○ Performance limitations of a single database for transaction processing and business intelligence

○ Lack of integration among operational databases and external data sources

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5.

Relational DBMSs have a dominant position in the market for data warehouse management software because

☐ Dominance of relational DBMSs for operational databases

☐ New features for data warehouses developed by DBMS vendors

☐ Performance improvements for data warehouse developed by DBMS vendors

☐ Highly scalable nature of data cube engines

6.

Identify query language extensions for data warehouses

☐ Nested queries

☐   Subtotal operators

☐   Hierarchical queries for self-referencing data such as organization charts

☐   Analytic functions such as window calculations and moving averages

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7.
Identify parallel processing features for data warehouses

☐   Parallel processing for loading large files

☐   Parallel processing that is not transparent with tedious coding to utilize

☐   Parallel processing for join and summary calculations in queries

☐   High performance transaction processing

8.
A star schema has multiple fact tables.

○   True

○   False

9.
The Inventory Data Warehouse used in assignments is a

○   snowflake schema.

○   star schema.

○   constellation schema.

○   combination of a snowflake and constellation schema.

10.

The Colorado Education Data Warehouse is a

○ a single organization data warehouse with optional participation by departments.

○ a federated data warehouse with mandatory participation.

○ a single organization data warehouse with mandatory participation by departments.

○ a federated data warehouse with optional participation.

11.

The motivation for the Colorado Education Data Warehouse was

○ a voluntary movement by parents to share assessments across school districts.

○ a set of laws mandating accountability for K-12 education in Colorado, USA.

○ a set of lawsuits mandating school districts to share assessment results.

○ a voluntary movement by school districts to share assessments.

12.

Identify artifacts developed by the Observational Medical Outcomes Partnership (OMOP).

☐ suite of tools for data integration, queries, and data generation

☐ standard vocabulary

☐ standard data model

☐ implementation of a standard medical data warehouse model populated with claims data and clinical data from a broad network of providers

13.
Identify choices indicating the relationship of SAFTINet to OMOP.

☐   SAFTINet populated a subset of the OMOP Common data model with synthetic data

☐   SAFTINet extended the OMOP Common Data Model with new parts

☐   SAFTINet developed additional data integration tools and a query portal

☐   SAFTINet implemented a subset of the OMOP Common Data Model

14.
Identify accomplishments of SAFTINet.

☐   Collection of secondary medical data from a broad network of health care organizations, primary care practices, providers, and patients

☐   Collected claims data from multiple USA states

☐   Established governance committees

☐   Extensions of the OMOP Common Data Model with new parts.

15.
The Scalable Architecture for Federated Translational Inquiries Network (SAFTINet) is a

○   a federated data warehouse with optional participation.

○   a single organization data warehouse with optional participation by departments.

○   a single organization data warehouse with mandatory participation by departments.

○   a federated data warehouse with mandatory participation.

Soumettre le quiz