

# DD-DWH-questions

DD-DWH-questions-may-31-2021-h18

\*Obligatoriu

1. Adresă de e-mail \*

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2. Your full name and surname (father's name 1st letter included): \*

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3. Your full matriculation code: \*

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4. Your email address provided when enrolling in the master program: \*

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5. 1.Select the proper attributes of a Data Warehouse. \*

*Bifați toate variantele aplicabile.*

- ☐ subject-oriented
- ☐ integrated
- ☐ non-volatile
- ☐ time-variant
- ☐ for operational / transaction systems' purposes

6. 2.DWH 2.0 came with the recognition that metadata is an integral part of the infrastructure. Check if True or False. \*

*Marcați un singur oval.*

- ☐ True
- ☐ False

7. 3.The star schema involve dimension tables designed based on normalization or denormalization? Select the correct answer. \*

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- ☐ normalization
- ☒ denormalization

8. 4.Check the correct OLAP operations. \*

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- ☒ Roll-Up
- ☒ Drill-Down
- ☒ Drill-Across
- ☒ Dice
- ☒ Slice
- ☒ Pivot

9. 5.Is it correct to place text attributes in a facts table if you mean to use them as the basis of constraining and grouping? \*

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- ☐ Yes
- ☒ No

10. 6.Would you recommend the split of hierarchies and hierarchy levels between multiple dimensions? \*

*Marcați un singur oval.*

- ☐ Yes
- ☒ No

11. 7.Would you recommend the use of surrogate keys when designing a dimension? \*

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- ☒ Yes
- ☐ No

12. 8.Would you recommend using surrogate key attributes when designing an hierarchy in a dimension? \*

*Marcați un singur oval.*

☐ Yes

☒ No

13. 9.A web-intensive Data Warehouse should be: \*

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☒ Fully web deployed

☒ Historically accurate up to the moment

☐ Not distributed

☐ Not dynamically changing

14. 10.Check the best choice when poor quality data reach the ETL system. \*

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☒ Merely tagging the data and passing it through

☐ Sending that / those offending record / records to a suspense file for latter processing

☐ Halting the entire load process

15. 11.Point out correct differences between a Data Warehouse and an Exploration Warehouse. \*

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☒ persistent structure vs. structure based on a project

☒ persistent structure vs. structure based on as-needed basis

☒ built to accomodate BI vs. built to accomodate statistical analysis tools

☒ highly normalized data vs. convenience fields

☐ external vs. internal data

☒ internal vs. external data

16. 12.Point out correct ways of overcoming the limitations of the relational model when dealing with analytical tasks and large amounts of data: \*

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- ☐ CRUD operations
- ☒ hybrid solutions of storing data (both column and row oriented)
- ☒ in-memory cache and data structures
- ☒ columnstore indexes
- ☐ Read operations
- ☐ 5NF

17. 13.Can a Data Mining (DM) model be built based only on data from a Data Warehouse? \*

*Marcați un singur oval.*

- ☒ Yes
- ☐ No

18. 14.Is a Data Mining model necessarily a persistent structure? \*

*Marcați un singur oval.*

- ☐ Yes
- ☒ No

19. 15.Can a Data Mining model be built based only on data from a flat file data source? \*

*Marcați un singur oval.*

- ☒ Yes
- ☐ No

20. 16.Can the dependency network of a DM model based on Naive Bayes be used as a criterion for pre-selecting possible predictors in a statistical model? \*

*Marcați un singur oval.*

- ☒ Yes
- ☐ No

21. 17.Can the statistical significance of influences from persistent DM models be verified directly in the Microsoft Analysis Server? \*

*Marcați un singur oval.*

☐ Yes

☒ No

22. 18.What type of queries can be used to exploit data mining models persistent on Microsoft's Analysis Services Server? \*

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☐ SPARQL

☐ MDX

☒ DMX

☐ traditional SQL

☒ XMLA

23. 19.Data Mining and Predictive Analytics are core tools : \*

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☐ in BI

☐ in DSS

☒ in both

24. 20.What means Predictive BI? \*

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☐ Ad-hoc reporting

☒ Statistical Analysis

☒ Data Mining

☐ Management Science

25. 21.What means Reporting / Descriptive BI? \*

*Bifați toate variantele aplicabile.*

☒ Visualization

☒ Ad-hoc reporting

☐ Data Mining

☐ Management Science

26. 22.Discretization in Data Mining means: \*

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- ☐ to convert continuous valued numerical variables to range and categories
- ☐ to convert ranges and categories to continuous valued numerical variables
- ☐ to respect the principle of non-transparency in the design of data processing algorithms
- ☐ not to attract attention

27. 23.Point out the correct differences between Data Mining and Statistics: \*

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- ☐ both look for relationships within data
- ☐ Statistics starts with a well-defined hypothesis while DM starts with a loosely defined one
- ☐ DM starts with a well-defined hypothesis while Statistics starts with a loosely defined one
- ☐ Statistics collects a data sample while DM uses all of existing data
- ☐ DM collects a data sample while Statistics uses all of existing data

28. 24.Why is the following dataset (consisting in time stamps and numerical values for a certain indicator: 202012 | 350.125; 202101 | 375.275; 202102 | 400; 202103 | 450) not suitable for reliable time-series predictions? \*

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- ☐ too many decimal points
- ☐ inconsistent definition of the time unit and artificial gaps on the X axis
- ☐ inconsistent separators
- ☐ lack of categorical representation of variables
- ☐ the year in the time unit is glued to the month

29. 25.Enumerate those correct readiness factors (including subcomponents) in the DWH lifecycle: \*

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- ☐ strong executive business sponsor
- ☐ strong and compelling business motivation for tackling the DWH / BI initiative
- ☐ technical feasibility
- ☐ resource feasibility
- ☐ data feasibility

30. 26. Check the correct roles possible to be staffed from the business side (business organizations) in the context of the DWH lifecycle: \*

*Bifați toate variantele aplicabile.*

- ☐ Business analyst
- ☐ BI app. designer/developer
- ☐ Data steward
- ☐ Business sponsor
- ☐ Business driver
- ☐ Business lead
- ☐ Business users
- ☐ Technical architect
- ☐ ETL developer
- ☐ Database admin.

31. 27. Check the correct roles possible to be staffed from IT organizations in the context of the DWH lifecycle: \*

*Bifați toate variantele aplicabile.*

- ☐ Business analyst
- ☐ BI app. designer/developer
- ☐ Data steward
- ☐ ETL developer
- ☐ Database admin.
- ☐ Technical architect
- ☐ Business sponsor
- ☐ Business driver
- ☐ Business users

32. 28. Is the Bayesian technique (including the one in SSAS & DM add-in for Excel / Data Tools for BI under .NET) based on the hypothesis of predictor independence? \*

*Marcați un singur oval.*

- ☐ Yes
- ☐ No

33. 29.The Natural Prediction Join in a SQL DMX query serves for creating a prediction using: \*

*Marcați un singur oval.*

- ☐ certain conditions applied on the variable to analyze (outcome)
- ☐ a single condition applied to a single predictor (input) variable
- ☐ many conditions applicable to the predictor (input) variables

34. 30.Check the true statements: \*

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- ☐ "SELECT \* FROM \$SYSTEM.DBSCHEMA\_Catalogs" returns all the catalogs existing in SSAS
- ☐ "SELECT \* FROM \$SYSTEM.DBSCHEMA\_Catalogs" returns all the mining models existing in SSAS
- ☐ "SELECT DISTINCT SERVICE\_NAME FROM \$SYSTEM.DMSCHEMA\_Mining\_Models" returns distinct mining techniques used for creating already deployed DM models in SSAS
- ☐ "SELECT DISTINCT SERVICE\_NAME FROM \$SYSTEM.DMSCHEMA\_Mining\_Models" returns distinct mining models deployed in SSAS

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