DD-DWH-questions

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

*Obligatoriu

1. Adresă de e-mail *

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

3. Your full matriculation code: *

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

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. *

Bifați toate variantele aplicabile.

- [ ] 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? *

Marcați un singur oval.

- 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? *

Marcați un singur oval.

- 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: *

Bifați toate variantele aplicabile.

- [ ] 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. *

Marcați un singur oval.

- 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. *

Bifați toate variantele aplicabile.

- [ ] 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: *

Bifați toate variantele aplicabile.

- [ ] 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? *

Bifați toate variantele aplicabile.

- [ ] 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? *

Bifați toate variantele aplicabile.

- [ ] 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: *

Marcați un singur oval.

- 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: *

Bifați toate variantele aplicabile.

- [ ] 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? *

Bifați toate variantele aplicabile.

- [ ] 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.Ennumerate those correct readiness factors (including subcomponents) in the DWH lifecycle: *

Bifați toate variantele aplicabile.

- [ ] 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: *

Bifați toate variantele aplicabile.

- "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