Week 11 Assignment 1

Quiz 1: Week 11

1. What is the primary goal of a data warehouse? (2 points)
   - [ ] It is used to store raw data from multiple sources
   - [ ] It is designed to provide a single view of data for decision-making purposes
   - [ ] It is used to replace the operational database system

2. What is the role of a data modeler in the data warehousing process? (2 points)
   - [ ] Create and maintain the data warehouse architecture
   - [ ] Collect and analyze business requirements
   - [ ] Develop and maintain data transformation processes

3. Why is data quality important in data warehousing? (2 points)
   - [ ] It helps in improving the accuracy of queries
   - [ ] It ensures that the data is consistent across multiple sources
   - [ ] It reduces the cost of data storage

4. What is the role of ETL (Extract, Transform, Load) processes in data warehousing? (2 points)
   - [ ] They are used to extract data from operational systems
   - [ ] They ensure that the data is transformed into the correct format
   - [ ] They load the transformed data into the data warehouse

5. What is the main function of a data mart? (2 points)
   - [ ] A small, self-contained subset of a data warehouse
   - [ ] It is used to perform real-time data processing
   - [ ] It provides a complete view of the entire organization

6. What are the advantages of using a data warehouse? (2 points)
   - [ ] Lower cost of implementation
   - [ ] Increased speed of data processing
   - [ ] Simplified data integration

7. What is the purpose of metadata in a data warehouse? (2 points)
   - [ ] It provides a single view of the data warehouse
   - [ ] It captures information about the data sources
   - [ ] It is used to automate data transformation processes

8. What is the role of a data architect in the data warehousing process? (2 points)
   - [ ] Design and manage the data warehouse architecture
   - [ ] Collect and analyze business requirements
   - [ ] Develop and maintain data transformation processes

9. What is the main difference between a data warehouse and a data mart? (2 points)
   - [ ] A data warehouse contains a broader range of data
   - [ ] A data mart is more focused on a specific business area
   - [ ] A data mart is used for real-time data processing

10. What is the role of a data integrator in the data warehousing process? (2 points)
    - [ ] Collect and analyze business requirements
    - [ ] Design and manage the data warehouse architecture
    - [ ] Develop and maintain data transformation processes

11. What is the primary goal of a data warehouse? (2 points)
    - [ ] It is used to store raw data from multiple sources
    - [ ] It is designed to provide a single view of data for decision-making purposes
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12. What are the advantages of using a data warehouse? (2 points)
    - [ ] Lower cost of implementation
    - [ ] Increased speed of data processing
    - [ ] Simplified data integration

13. What is the role of metadata in a data warehouse? (2 points)
    - [ ] It provides a single view of the data warehouse
    - [ ] It captures information about the data sources
    - [ ] It is used to automate data transformation processes

14. What is the purpose of data marts in a data warehouse? (2 points)
    - [ ] A small, self-contained subset of a data warehouse
    - [ ] It is used to perform real-time data processing
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15. What is the main difference between a data warehouse and a data mart? (2 points)
    - [ ] A data warehouse contains a broader range of data
    - [ ] A data mart is more focused on a specific business area
    - [ ] A data mart is used for real-time data processing

16. What is the role of a data architect in the data warehousing process? (2 points)
    - [ ] Design and manage the data warehouse architecture
    - [ ] Collect and analyze business requirements
    - [ ] Develop and maintain data transformation processes

17. What are the advantages of using a data warehouse? (2 points)
    - [ ] Lower cost of implementation
    - [ ] Increased speed of data processing
    - [ ] Simplified data integration

18. What is the purpose of metadata in a data warehouse? (2 points)
    - [ ] It provides a single view of the data warehouse
    - [ ] It captures information about the data sources
    - [ ] It is used to automate data transformation processes

19. What is the role of a data integrator in the data warehousing process? (2 points)
    - [ ] Collect and analyze business requirements
    - [ ] Design and manage the data warehouse architecture
    - [ ] Develop and maintain data transformation processes

20. What is the primary goal of a data warehouse? (2 points)
    - [ ] It is used to store raw data from multiple sources
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    - [ ] It is used to replace the operational database system