



In the Name of Allāh, the Most Gracious, the Most Merciful

## Final-Term Papers Solved MCQs CS614- Data Warehousing Including 2016 Final-Term Papers

1. Suppose the amount of data recorded in an organization is doubled every year. This increase is
  - Linear
  - Quadratic
  - Logarithmic
  - **Exponential** PG # 15
2. The telecommunications data warehouse is dominated by the sheer volume of data generated at the call level \_\_\_\_\_ area.
  - **Subject** PG # 35
  - Object
  - Aggregate
  - Detail
3. De-Normalization normally speeds up
  - **Data Retrieval** PG # 51
  - Data Modification
  - Development Cycle
  - Data Replication

4. ER Model can be simplified in ----- ways

- One
- **Two**
- Three
- Four

PG # 103

There are actually two ways of “simplifying” the ER model i.e. (i) De-normalization and (ii) Dimensional Modeling.

5. Non recording facts have a disadvantage that it has

- **Lack of Information**
- Redundant Information
- Repeated Information
- Normalized Information

PG # 120

6. Fact-less fact table is a fact table without numeric fact columns. It is used to capture relationship between

- **Dimensions**
- Attributes
- Tables
- Facts

PG # 121

7. A cube is not a data warehouse, it is a \_\_\_\_\_

- **Data Mart**
- Data Extraction
- Data Loading
- Query Manager

PG # 131

دنیا میں سب سے مشکل کام اپنی اصلاح اور سب سے آسان کام دوسروں پر نکتہ چینی کرنا ہے

8. A dense index, if fits into memory, costs only\_\_\_\_\_disk I/O access to locate a record by given key.

➤ **One**

PG # 223

➤ Two

➤  $\lg(n)$

➤ n

9. \_\_\_\_\_, if fits into memory, costs only one disk I/O access to locate a record by given key.

➤ **A Dense Index**

PG # 223

➤ A Sparse Index

➤ An Inverted Index

➤ None of These

10. \_\_\_\_\_, if too big and doesn't fit into the memory will be expensive when used to find a record by given key.

➤ **A Dense Index**

PG # 223

➤ A Sparse Index

➤ An Inverted Index

➤ None of these

11. \_\_\_\_\_operator is conservative in that it assigns to the dimension an aggregate value no higher than the value of its weakest data quality indicator.

➤ **The Min**

PG # 188

➤ The Simple Ratio

➤ The Weighted Average

➤ None of these

اللہ کا خوف سب سے بڑی دانائی ہے

12. Parallel execution dramatically reduces response time for \_\_\_\_\_ operations on large databases typically associated with Decision Support Systems (DSS) and data warehouses.

- **Data-Intensive** **PG # 201**
- Quality-Intensive
- Analysis-Intensive

13. Data dependencies between different phases of computation introduce synchronization requirements that force \_\_\_\_\_ execution.

- **Sequential** **PG # 204**
- Parallel
- Analogous
- Interactive Parallel

14. Maintaining locking consistency over all nodes can become a problem in large clusters. This is the disadvantage of

- **Shared Disk Approach** **PG # 209**
- Local Memory Approach
- Distributed Memory Approach

15. Performance is dictated by the \_\_\_\_\_ stage in the pipeline.

- **Slowest** **PG # 217**
- Fastest
- Smallest
- Largest

16. An optimized structure which is built primarily for retrieval, with update being only a secondary consideration is

- **Inverted Index** **PG # 232**
- OLTP
- OLAP
- DSS

17. During business hours, most\_\_\_\_\_systems should probably not use parallel execution.

➤ **OLTP**

PG # 206

➤ OLAP

➤ DSS

➤ Data Mining

18. There are many variants of the traditional nested-loop join. If there is an index and that index is exploited, then it is called

➤ Naive nested-loop join

➤ **Index nested-loop join**

PG # 243

➤ Temporary index nested-loop join

➤ None of these

19. There are many variants of the traditional nested-loop join. If the index is built as part of the query plan and subsequently dropped, it is called

➤ Naive nested-loop join

➤ Index nested-loop join

➤ **Temporary index nested-loop join**

PG # 243

➤ None of these

20. There are many variants of the traditional nested-loop join. When the entire table is scanned it is called

➤ **Naive nested-loop join**

PG # 243

➤ Index nested-loop join

➤ Temporary index nested-loop join

➤ None of these

دنیا کی سب سے بڑی فتح نفس پر قابو رکھنا ہے

21. If someone told you that he had a good model to predict customer usage, the first thing you might try would be to ask him to apply his model to your customer \_\_\_\_\_, where you already knew the answer.

➤ **Base** [Click here for Reference Detail](#)

- Drive
- File
- Log

22. Data mining is a/an \_\_\_\_\_ approach, where browsing through data using data mining techniques may reveal something that might be of interest to the user as information that was unknown previously.

➤ **Exploratory** **PG # 249**

- Non-Exploratory
- Computer Science

23. Data mining uses \_\_\_\_\_ algorithms to discover patterns and regularities in data.

➤ **Statistical** **PG # 251**

- Mathematical
- Computational

24. Classification consists of examining the properties of a newly presented observation and assigning it to a predefined \_\_\_\_\_.

➤ **Class** **PG # 259**

- Object
- Container
- Subject

25. As opposed to the outcome of classification, estimation deal with \_\_\_\_\_ valued outcome.

➤ **Continuous** **PG # 260**

- Discrete
- Isolated
- Distinct

26. \_\_\_\_\_ is the technique in which existing heterogeneous segments are reshuffled, relocated into homogeneous segments.

➤ **Clustering**

PG # 264

➤ Aggregation

➤ Segmentation

➤ Partitioning

27. Giving the least time to \_\_\_\_\_ can prove suicidal to the DWH project.

➤ OLAP

➤ De-normalization

➤ **ETL**

PG # 313

➤ None of these

28. In DWH project, it is assured that \_\_\_\_\_ environment is similar to the production environment

➤ Designing

➤ **Development**

PG # 314

➤ Analysis

➤ Implementation

29. The application development quality-assurance activities cannot be completed until the data is \_\_\_\_\_.

➤ **Stabilized**

PG # 308

➤ Identified

➤ Finalized

➤ Computerized

خود کو تمہیں سے بڑھ کر کوئی اچھا مشورہ نہیں دے سکتا

30. Many data warehouse project teams waste enormous amounts of time searching in vain for a \_\_\_\_\_.

- **Silver Bullet** PG # 315
- Golden Bullet
- Suitable Hardware
- Compatible Product

Many data warehouse project teams waste enormous amounts of time searching in vain for a **silver bullet** i.e. a **panacea** or **Amratdhara**

31. Focusing on data warehouse delivery only often end up\_\_\_\_\_.

- **Rebuilding** PG # 315
- Success
- Good Stable Product
- None of these

Focusing on data warehouse delivery, architecture feels like a distraction and impediment to progress and **often end up rebuilding.**

32. Investing years in architecture and forgetting the primary purpose of solving business problems, results in inefficient application. This is the example of\_\_\_\_\_mistake.

- Extreme Technology Design
- Extreme Architecture Design
- **None of these**

33. \_\_\_\_\_Division is cotton hub of Punjab.

- Lahore
- Faisalabad
- **Multan**
- Bahawalpur

Multan, a division in southern Punjab, is known as the agricultural **hub** of the country. Multan accounts for **70% cotton production** of the country.

عقل مند کہتا ہے میں کچھ نہیں جانتا جبکہ بے وقوف کہتا ہے کہ میں سب کچھ جانتا ہوں

34. \_\_\_\_\_ in agriculture extension is that pest population beyond which the benefit of spraying outweighs its cost.

- None of these
- Profit Threshold Level
- **Economic Threshold Level**
- Medicine Threshold Level

PG # 332

**ETL A:** Economic Threshold Level in agriculture extension is that pest population beyond which the benefit of spraying outweighs its cost. It is highly infeasible and expensive to eradicate

35. \_\_\_\_\_ is a process which involves gathering of information about column through execution of certain queries with intention to identify erroneous records.

- **Data profiling**
- Data Anomaly Detection
- Record Duplicate Detection
- None of these

PG # 439

36. If we remove the modification anomalies the table comes in \_\_\_\_\_ form

- 1NF
- 2NF
- **3NF**
- 4NF

PG # 47

37. Modification anomalies occur in \_\_\_\_\_ form

- 1NF
- **2NF**
- 3NF
- BCNF

PG # 45

جو لوگوں کے سامنے فخر کرتا ہے وہ لوگوں کی نظروں سے گر جاتا ہے

38. Execution can be completed successfully or it may be stopped due to some error. In case of successful completion of execution all the transactions will be \_\_\_\_\_

- **Committed to the database** PG # 419
- Rolled back

39. If some error occurs, execution will be terminated abnormally and all transactions will be rolled back. In this case when we will access the database we will find it in the state that was before the\_\_\_\_\_.

- **Execution of package** PG # 419
- Creation of package
- Connection of package

40. Execution can be completed successfully or it may be stopped due to some error. If some error occurs, execution will be terminated abnormally and all transactions will be \_\_\_\_\_

- Committed to the database
- **Rolled back** PG # 419

41. To identify the degree of transformation required we need to perform\_\_\_\_\_.

- **Data Profiling** PG # 437
- Data Anomaly Detection
- Data Cleansing
- None of The Given

42. To identify the\_\_\_\_\_required we need to perform data profiling

- **Degree of Transformation** PG # 437
- Complexity
- Cost
- Time

عقل مند اپنے عیب خود دیکھتا ہے اور بیوقوفوں کے عیب دنیا دیکھتی ہے

43. To judge effectiveness we perform data profiling twice.

- One before Extraction and the other after Extraction
- **One before Transformation and the other after Transformation** PG # 441
- One before Loading and the other after Loading

44. If the dates are missing we must need to consult\_\_\_\_\_.

- **Golden Copy** PG # 456
- Default System Date
- Silver Copy
- None of the given

45. In MOLAP physically build cubes for direct access, support is not available for\_\_\_\_\_SQL.

- **ANSI** PG # 78
- Microsoft
- Oracle
- SAP

MOLAP physically builds “cubes” for direct access - usually in the proprietary file format of a multi-dimensional database (MDD) or a user defined data structure. Therefore **ANSI SQL is not supported.**

46. \_\_\_\_\_ is the lowest level of detail or the atomic level of data stored in the warehouse.

- Aggregate
- Cube
- **Grain** PG # 111
- Virtual Cube

جو شخص ناکامیوں سے ڈر کر بھاگتا ہے کامیابی اُس سے ڈر کر بھاگتی ہے

47. After implementing Change Data Capture, the advantage we have is that, data is able to be integrated and transformed \_\_\_\_\_

- **In-flight**                      [Click Here For Reference Detail](#)                      **PG # 152**
- Off-flight
- Stored Data
- Over-flight

Finally data is able to be integrated and transformed "in-flight". Once the update/transaction data has been pulled from the log tape, the DWH is free to re-sequence, reformat, convert, merge, summarize, etc.

48. All data is \_\_\_\_\_ of something real.

- I        An Abstraction
- II       A Representation

Which of the following option is true?

- **I Only**    **PG # 180**
- II Only
- Both I & II
- None of I & II

49. In the Information Age, the \_\_\_\_\_ learning organization is at a distinct disadvantage. This term means "impaired functioning"

- Functional
- **Dysfunctional**    **PG #181**
- Purposeful
- Serviceable

50. Many DW projects do not deliver to full potential because they treat data quality as a one-time undertaking as part of UAT. Here UAT stands for

- **User Acceptance Testing**    **PG # 193**
- Uninterrupted Availability of Testing
- Universal Acceptance Test
- Universal Applied Test

51. NUMA stands for \_\_\_\_\_

- **Non-uniform Memory Access**
- Non-updateable Memory Architecture
- New Universal Memory Architecture

**PG # 206**

52. Parallelism can \_\_\_\_\_ system performance on over-utilized systems or systems with small I/O bandwidth.

- **Reduce**
- Enhance
- Maintain
- Boost

**PG # 202**

53. Data mining evolve as a mechanism to cater the limitations of \_\_\_\_\_ systems to deal massive data sets with high dimensionality, new data types, multiple heterogeneous data resources etc.

- **OLTP**
- OLAP
- DSS
- DWH

**PG # 254**

54. In contrast to data mining, statistics is \_\_\_\_\_ driven.

- **Assumption**
- Knowledge
- Discovery
- Database

**PG # 255**

55. A \_\_\_\_\_ implementation approach is generally useful for projects where the technology is mature and well understood, as well as where the business problems that must be solved are clear and well understood.

- **Top Down**
- Bottom Up
- Waterfall
- Spiral

**PG # 283**

56. Implementing a data warehouse requires \_\_\_\_\_ integrated activities.

- Loosely
- **Tightly**
- Slackly
- Lethargically

PG # 289

57. The Kimball's iterative data warehouse development approach drew on decades of experience to develop the \_\_\_\_\_.

- OLAP Dimension
- Business Definition Lifecycle
- **Business Dimensional Lifecycle**
- Data Warehouse Dimension

PG # 289

58. Pipeline parallelism focuses on increasing throughput of task execution, NOT on \_\_\_\_\_ sub-task execution time.

- Increasing
- **Decreasing**
- Maintaining
- None of these

PG # 215

59. Pipeline parallelism focuses on increasing \_\_\_\_\_ of task execution.

- **Throughput**
- Non I/O Portion
- I/O Speed
- None of these

PG # 215

60. One needs to slot the alternative tools into categories that allow for meaningful comparison in order to \_\_\_\_\_.

- **Evaluate Tools**
- Reduce Cost
- None of these

PG # 315

61. Pakistan is one of the five major\_\_\_\_\_countries in the world.

- **Cotton-growing** **PG # 330**
- Rice-growing
- Weapon Producing

62. \_\_\_\_\_is a systematic field sampling process that provide field specific information on pest pressure and crop injury.

- **Pest Scouting** **PG # 333**
- Soil Survey
- Seed Survey
- Water Survey

63. The growth of master files and magnetic tapes exploded around the mid-\_\_\_\_\_.

- 1950s.
- **1960s.** **PG # 12**
- 1970s.
- 1980s.

64. Redundancy causes\_\_\_\_\_anomalies

- **Update** **PG # 43**
- Select
- Both Update & Select
- None of these

65. Data Transformation Services (DTS) provide a set of\_\_\_\_\_that lets you extract, transform, and transformation required we need to perform into single or multiple destinations supported by DTS connectivity.

- **Tools** **PG # 373**
- Documentations
- Guidelines

66. Data Transformation Services (DTS) provide a set of tools that lets you extract, transform, and consolidate data from disparate sources into \_\_\_\_\_ supported by DTS connectivity.

- Single Destination
- Multiple Destinations
- **Single or Multiple Destinations** PG # 373

67. Data Transformation Services (DTS) provide a set of \_\_\_\_\_ that lets you extract, transform, and consolidate data from disparate sources into single or multiple destinations supported by DTS connectivity.

- **Tools** PG # 373
- Documentations
- Guidelines

68. In ROLAP access to information is provided via relational database using \_\_\_\_\_ standard SQL.

- **ANSI** PG # 78
- Microsoft
- Oracle
- SAP

69. Which of the following statement is true? 1 GB is

- **$2^{30}$  or  $10^9$  bytes** PG # 15
- $2^{30}$  or  $10^6$  bytes
- $2^{32}$  or  $10^9$  bytes
- $2^{32}$  or  $10^8$  bytes

How Much Data is that?		
1 MB	$2^{20}$ or $10^6$ bytes	Small novel – 3 1/2 Disk
1 GB	$2^{30}$ or $10^9$ bytes	Paper rims that could fill the back of a pickup van
1 TB	$2^{40}$ or $10^{12}$ bytes	50,000 trees chopped and converted into paper and printed
2 PB	1 PB = $2^{50}$ or $10^{15}$ bytes	Academic research libraries across the U.S.
5 EB	1 EB = $2^{60}$ or $10^{18}$ bytes	All words <u>ever</u> spoken by human beings

**Table-2.1: Quantifying size of data**

70. Which of the following statement is true? 1 PB is

- $2^{52}$  or  $10^{13}$  bytes
- **$2^{50}$  or  $10^{15}$  bytes** PG # 15
- $2^{50}$  or  $10^{10}$  bytes
- $2^{48}$  or  $10^{12}$  bytes

71. Node of a B-Tree is stored in memory block and traversing a B-Tree involves \_\_\_\_\_ page faults.

- $O(n)$
- $O(n^2)$
- $O(n \lg n)$
- **$O(\log n)$**  PG # 22

72. Normally Selectivity of query in OLTP system is

- **High** PG # 30
- Low
- Not measured

OLTP	DWH
Primary key used	Primary key NOT used
No concept of Primary Index	Primary index used
May use a single table	Uses multiple tables
Few rows returned	Many rows returned
<b>High selectivity of query</b>	Low selectivity of query
Indexing on primary key (unique)	Indexing on primary index (non-unique)

Table-4.1: Comparison of OLTP and DWH for given queries

73. Normally Selectivity of query in data warehouse is

- High
- **Low** PG # 30
- Not measured

بدصورت چہرہ بدصورت دماغ سے بہتر ہے

74. One major goal of horizontal splitting is

- Splitting rows for exploiting parallelism
- Splitting columns for exploiting parallelism
- Splitting schema for exploiting parallelism
- **Spreading rows for exploiting parallelism.**

PG # 46

### Splitting Tables: Horizontal splitting

Breaks a table into multiple tables based upon common column values. Example: Campus specific queries.

#### GOAL

- **Spreading rows for exploiting parallelism.**
- Grouping data to avoid unnecessary query load in WHERE clause.

75. Fact-less fact table is a fact table without numeric fact columns. It is used to capture relationship between

- **Dimensions**
- Attributes
- Tables
- Facts

PG # 121

#### A Fact-less Fact Table

- "Fact-less" fact table
  - **A fact table without numeric fact columns**
  - **Captures relationships between dimensions**
  - Use a dummy fact column that always has value 1

عقل مند آدمی اس وقت تک نہیں بولتا جب تک خاموشی نہیں ہو جاتی

76. The \_\_\_\_\_ measures the ratio of desired outcomes to total outcomes.

- **Simple Ratio** PG # 187
- Min Operation
- Max Operation
- Weighted Average

77. In 1972 the Mitsubishi Shipyards in Kobe developed a technique in which customer wants were linked to product specifications via a matrix format. This technique is known today as:

- The Matrix of Quality
- **The House of Quality** PG # 194
- The Base Structure of Quality
- None of these

78. \_\_\_\_\_ improve the overall data design and use data standards.

- Process Improvement
- System Improvement
- Policy & Procedure Improvement
- **Data Design Improvement** PG # 196

79. Which is the least appropriate join operation for Pipeline parallelism?

- Inner Join
- Inner Join
- **Sort-Merge Join**
- Hash Join

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80. It must be ensured that, there are enough computing resources, Query-coordinator is very fast as compared to query servers, Work done in each partition almost same to avoid performance bottlenecks

- To get a speed-up of N with M partitions
- To get a speed-up of N with  $N^2$  partitions
- **To get a speed-up of N with N partitions**
- To get a speed-up of N with N/2 partitions

PG # 213

81. The automated, prospective analyses offered by data mining move beyond the analyses of past events provided by \_\_\_\_\_tools typical of decision support systems.

- Introspective
- Intuitive
- Reminiscent
- **Retrospective**

[Click Here For Reference Detail](#)

82. The automated, prospective analyses offered by data mining move beyond the analyses of past events provided by retrospective tools typical of \_\_\_\_\_.

- **Decision Support Systems**
- OLTP
- OLAP
- Initial Data Mining Systems

[Click Here For Reference Detail](#)

بہترین تجربہ وہ ہے جس سے نصیحت حاصل ہو

83. The most recent attack is the \_\_\_\_\_ attack on the cotton crop during 2003-04, resulting in a loss of nearly 0.5 million bales.

- Cotton Worm
- **Boll Worm** PG # 333
- Purple Worm
- Blue Worm

84. \_\_\_\_\_ gives total view of an organization

- OLTP
- **Data warehouse** PG # 16
- OLAP
- Data base

85. Data recorded by pest scouts consists of two parts:

- **Static and Dynamic** PG # 342
- Valid and Invalid
- Volatile and Non-Volatile

86. DTS allows us to connect through any data source or destination that is supported by \_\_\_\_\_

- **OLE DB** PG # 373
- OLAP
- OLTP
- Data Warehouse

خوبصورتی علم و ادب سے ہوتی ہے لباس و حسن سے نہیں

87. Experience showed that for a single pass magnetic tape that scanned 100% of the records, only\_\_\_\_\_of the records, sometimes even were actually required.

- **5%**                      **PG # 12**
- 30%
- 50%
- 80%

88. It is observed that every year the amount of data recorded in an organization

- **Doubles**                      **PG # 15**
- Triples
- Quartiles
- Remains same as previous year

89. Normalized design is likely to perform much faster than de-normalized design for queries that probe

- **Master table only**                      **PG # 64**
- Details tables only
- Both master and detail tables

90. Partition elimination is not possible with

- **Round-Robin**                      **PG # 66**
- De-normalization
- Normalization

تم اچھا کرو زمانہ تم کو برا سمجھے یہ اس سے بہتر ہے کہ تم برا کرو اور زمانہ تم کو اچھا سمجھے

91. ER is a logical design technique that seeks to remove the \_\_\_\_\_ in data.

- **Redundancy** PG # 98
- Normalization
- Anomalies

92. ER is a \_\_\_\_\_ design technique that seeks to remove the redundancy in data.

- **Logical** PG # 98
- Physical
- Data Dependent
- Transaction Dependent

93. Merging information is one of the major types of \_\_\_\_\_

- **Transformation** PG # 152 , 153
- Extraction
- Loading
- None of these

**Data merging is part of data transformation where multiple values are summarized into single summarized value.**

94. The goal of \_\_\_\_\_ is to look at as few block as possible to find the matching records.

- **Indexing** PG # 222
- Partitioning
- Joining

جو لوگوں کے سامنے فخر کرتا ہے وہ لوگوں کی نظروں سے گر جاتا ہے

95. If every key in the data file is represented in the index file then index is

- **Dense Index** PG # 223
- Sparse Index
- Inverted Index
- None of these

96. \_\_\_\_\_ means meeting customer's needs, not necessarily exceeding them.

- **Quality** PG # 180
- Marketing
- DSS
- OLAP

97. The purpose of the House of Quality technique is to reduce \_\_\_\_\_ types of risk

- **Two** PG # 194 , 195
- Three
- Four
- All

98. Majority of data warehouse projects fail due to the complexity of the \_\_\_\_\_

- **Development Process** PG # 283
- Analytical Process of Cube
- Query Complexity
- Index Complexity

انسان کے لئے بری صحبت سے بڑھ کر بری کوئی چیز نہیں

99. For a DWH project, the key requirement are\_\_\_\_\_and product experience.

- Tools
- **Industry**
- Software
- None of these

PG # 320

100. Relational databases allow you to navigate the data in\_\_\_\_\_that is appropriate using the primary, foreign key structure within the data model.

- Only One Direction
- **Any Direction**
- Two Direction
- None of these

PG # 19

101. In\_\_\_\_\_system, the contents change with time.

- **OLTP**
- DSS
- ATM
- OLAP

PG # 20

102. Primary key is repeated in\_\_\_\_\_splitting.

- Horizontal
- **Vertical**

PG # 56

خاموشی غصے کا بہترین علاج ہے

103. Geography is a good example of

- One-dimensional Hierarchy
- **Multidimensional Hierarchy**
- Non-Dimensional
- Linear Hierarchy

**PG # 52**

104. Cube is a logical entity containing values of a certain fact at a certain aggregation level at \_\_\_\_\_ of a combination of dimensions.

- **An Intersection**
- A Union
- A Subtraction
- A Subset

**PG # 88**

105. Pre-computed \_\_\_\_\_ can solve performance problems

- **Aggregates**
- Facts
- Dimensions

**PG # 111**

106. A company has implemented data warehouse for analytical purpose. Quantity sold is stored as a fact. This quantity sold is

- **Additive Fact**
- Non-Additive Fact

**PG # 119**

107. In full extraction, data is extracted completely from the source system. Therefore there is no need to keep track of changes to the \_\_\_\_\_

- **Data Source**
- DWH
- Data Mart

**PG # 133**

108. The goal of \_\_\_\_\_ is to look at as few blocks as possible to find the matching records(s).

- **Indexing** PG # 222
- Partitioning
- Joining

109. After performing most of the transformation and cleansing steps, especially after having cleaned single-source error and conflicting representations, we perform \_\_\_\_\_ task.

- **Duplicate Elimination** PG # 165
- Duplicate Identification
- Duplicate Classification
- Duplicate Categorization

110. \_\_\_\_\_ improve the functional processes used to create, manage, access, and use data.

- **Process Improvement** PG # 196
- System Improvement
- Policy & Procedure Improvement
- Data Design Improvement

111. Non uniform distribution, when the data is distributed across the processors, is called \_\_\_\_\_.

- **Skew in Partition** PG # 218
- Pipeline Distribution
- Distributed Distribution
- Uncontrolled Distribution

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112. In nested-loop join case, if there are „M“ rows in outer table and „N“ rows in inner table, time complexity is

- $O(M \log N)$
- $O(M \log N)$
- **$O(MN)$**
- $O(M^N)$

**PG # 240**

If the **outer loop** executes R times and for each such execution the **inner loop** executes S times, then the total cost or time complexity of the nested loop is  $O(RS)$ .

113. There are different DWH implementation strategies, Kimball's Approach for data warehouse implementation is

- Data-Driven
- **Goal-Driven**
- User-Driven
- None of these

**PG # 289**

114. If w is the window size and n is the size of data set, then the complexity of merging phase in BSN method is \_\_\_\_\_

- $O(n)$
- $O(w)$
- **$O(w n)$**
- $O(w \log n)$

**PG # 171**

115. \_\_\_\_\_ is one class of decision support environment.

- **OLAP**
- OLTP
- Data Cleansing
- ETL

**PG # 30**

116. Within the data warehousing field, data\_\_\_\_\_is applied especially when several databases are merged.

- Extraction
- Loading
- **Cleansing**
- Join

PG # 168

117. Every operation cannot be parallelized, there are some preconditions and one of them is

- **The operations to be parallelized can be implemented independent of each other.** PG # 201
- The operations to be parallelized can be implemented dependent on each other.
- The operation to be parallelized has dependent sub-operations.
- None of these

118. The users of data warehouse are \_\_\_\_\_

- Decision makers
- Knowledge workers
- **Both Knowledge workers and Decision makers**

PG # 18

The users of data warehouse are **knowledge workers in other words they are decision makers** in the organization.

عقل مند آدمی اس وقت تک نہیں بولتا جب تک خاموشی نہیں ہو جاتی

119. As per Kimball, \_\_\_\_\_ is the main operational process

- Requirement extraction
- Goal design
- **Business process**
- Schema design

PG # 285

120. In context of data parallelism, the work done by query processor should be:

- Almost zero
- **Maximum**
- Pipelined
- Filtered across partitions

121. "More resources means proportionally less time for given amount of data". The statement refers to:

- Scale-Up
- **Speed-Up**
- Size-up
- Over-utilized system

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122. "If resources increase in proportion to increase in data size, time is constant". The statement refers to:

- **Scale-Up**
- Speed-Up
- Size-up
- Over-utilized system

123. Waterfall is a/an \_\_\_\_\_ model.

- Iterative
- **Simple linear sequential**
- Object Oriented
- Rapid development

124. Spiral model is \_\_\_\_\_

- Sequence of waterfall model
- Risk oriented model
- An iterative model
- **All of the given options**

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125. In horizontal splitting, we split a relation into multiple tables on the basis of

- **Common Column Values**
- Common Row Values
- Different Index Values
- Value resulted by ad-hoc query

126. Effects of de-normalization on database performance are

- **Unpredictable** **PG # 62**
- Predictable
- Conventional
- Unsurprising

127. OLAP is used for analytical process. For analytical processing we need

- **Multi-level aggregates** **PG # 74**
- Record level access
- Data level access
- Row level access

128. In contrast to statistics, data mining is \_\_\_\_\_driven.

- Assumption
- **Knowledge** **PG # 255**
- Discovery
- Database

129. In the context of Business Development Lifecycle (Kimball's approach), the first task in technology track is \_\_\_\_\_ Technical

- **Architecture Design** PG # 299
- Requirement Specification Development
- Requirement Analysis
- Lifecycle Model Selection

130. Multidimensional databases typically use proprietary \_\_\_\_\_ format to store pre-summarized cube structures.

- **File** PG # 79
- Application
- Aggregate
- Database

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131. As consumers, human beings judge the quality of things during their life-time.

I Consciously

II Subconsciously

III Unconsciously

Which of the following statement is true?

- I Only
- II Only
- III Only
- **I & II Only**      PG # 179

132. Product selection phase fall in the \_\_\_\_\_ Kimball's approach of business dimensional life cycle.

133. SMP Stands for \_\_\_\_\_.

- **Symmetric multi-processors**      PG # 202
- Sufficient multi-processors

بہترین تجربہ وہ ہے جس سے نصیحت حاصل ہو

134. Records referring to the same entity are represented in different formats in the different data sets or are represented erroneously. Thus, duplicate records will appear in the merged database. The issue is to identify and eliminate these duplicates. The problem is known as the \_\_\_\_\_.

- **Merge/Purge Problem**                      **PG # 168**
- Cleansing Problem
- Transformation Problem
- Data Quality Problem

135. The users of data warehouse are knowledge workers in other words they are \_\_\_\_\_ in the organization.

- **Decision maker**                              **PG # 18**
- Manager
- Database Administrator
- DWH Analyst

136. Identify the TRUE statement about Hypertext Transfer Protocol (HTTP).

- **HTTP is stateless protocol**                      **PG # 364**
- HTTP is not a word wide web protocol
- HTTP is used to maintain sessions
- HTTP is message routing protocol

137. \_\_\_\_\_ contribute(s) to an under-utilization of valuable and expensive historical data, and inevitably results in a limited capability to provide decision support and analysis.

➤ **The lack of data integration and standardization** PG # 330

➤ Less number of frequent updates

➤ Minimum aggregation level

➤ Low cube cardinality

138. For a given data set, to get a local view in un-supervised learning we use

➤ One-way Clustering

➤ **Bi-clustering** PG # 271

➤ Pearson correlation

➤ Euclidean distance

139. One-way and Two-way clustering are types of

➤ Supervised

➤ Semi-Supervised

➤ **Un-Supervised** PG # 271

➤ Reinforcement

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140. Collapsing tables can be done on the \_\_\_\_\_ relationship(s)

- Only One-to-One
- Only Many-to-Many
- Only One-to-Many
- **Both One-to-One and Many-to-Many** PG # 52

141. If we apply Run Length Encoding on the input “111100001111”, the output will be.

- **14#04#14** PG # 234
- 41#40#41
- 18#04
- 81#40

اللہ کا خوف سب سے بڑی دانائی ہے

142. PTCL is one of the examples of the following data warehouse organization

- **Telecommunications** PG # 323
- Financial service/insurance
- Transportation
- Government

**DWH Target Organizations**

• **Financial service/insurance.**

- Union Bank
- State Bank of Pakistan

• **Telecommunications.**

- Ufone
- **PTCL**
- PAKNET

• **Transportation.**

- PIA

• **Government.**

- NADRA

143. \_\_\_\_\_ can be placed in front of our enterprise's Web servers to help them offload requests for frequently accessed content.

- **Reverse Proxy** PG # 369
- Forward Proxy

برى صحبت سے تنهائى بهتر ہے اور تنهائى سے نيك صحبت بهتر ہے

144. \_\_\_\_\_ a small piece of information generated by the Web server and stored on the client.

➤ **Cookie**

PG # 359

145. . In context of web warehousing, which of the following is NOT one of the way to identify the session?

➤ Using Transient Cookies

➤ Using Time-contiguous Log Entries

➤ Using HTTP's secure sockets layer (SSL)

➤ **Using Simple Session Protocol (SSP)**

PG #364

146. The  $i$ th bit is set to 1 if the  $i$ th row of the base table has the value for the indexed column.

This statement refers to:

➤ Inverted index

➤ **Bitmap index**

PG # 233

➤ Cluster index

➤ join index

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147. Which of the following is NOT one of the issues of Clickstream data?

- Identifying the visitor origin
- Identifying the session
- Identifying the visitor
- **Identify the domain server**

PG # 363

Clickstream data has many issues.

1. Identifying the Visitor Origin
2. Identifying the Session
3. Identifying the Visitor
4. Proxy Servers
5. Browser Caches

148. Which of the following is/are drawback(s) of traditional web searches?

- Limited to keyword based matching
- Cannot distinguish between the contexts in which a link is used
- Coupling of files has to be done manually
- **All of the given options**

PG # 351

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## CS614 - Quiz No.3 & 4 (2013 Spring & Fall)

**Question # 1 of 10 (Total Marks: 1) Select correct option:**

During the development phase we should follow standards for:

Naming Conventions  
Calculation

Libraries

**All of the given options** (Page 307)

**Question # 2 of 10 (Total Marks: 1) Select correct option:**

As per kimball's approach the second phase of DWH life cycle is:

Project Planning

**Requirement definition** (Page 299)

Requirement verification

Requirement validation

**Question # 3 of 10 (Total Marks: 1) Select correct option:**

Bill Inmon argues that requirements are well understood only after

They are documented

They extracted and verified

**Data warehouse is populated** (Page 285)

All schemes are defined

**Question # 4 of 10 (Total Marks: 1) Select correct option:**

Waterfall model is appropriate when

When budget is low  
When the deadline is strict

When resources are limited

**Requirements are clearly defined** (Page 284)

**Question # 5 of 10 (Total Marks: 1) Select correct option:**

A bottom up implementation approach is useful when