**DATAWARE HOUSING & BUSINESS INTELLIGENCE ASSIGNMENT**

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**Question 1**

**What is data ware Housing?**

**Answer**: A data warehouse refers to database that is maintained separately from a organisation operational database.

* Future predicts
* To know performance of company
* Can store huge volume of historical data

**Question 2**

**What is the baisc 4 features about Data ware Housing?**

**Answer:** Data warehouse properties:

* subject oriented
* time variant
* non volatile
* Integrated

**Question 3**

**What is Initial Load / Write down the Alternate name?**

**Answer:**

* It will have both processed and unprocessed data.
* We Have to store historical data for first time loading.
* Alternate name:1st time load

**Question 4**

**What is Delta Load / Write down the Alternate name?**

**Answer:**

* We extract the wanted data from the initial load
* A delta load means that we do not repeadly extract the entire data of table,only the needed data should be extracted.
* Alternate name: incremental load

**Question 5**

**What are the differences between Inmon Vs Kimball?**

|  |  |  |
| --- | --- | --- |
| CHARACTERISTICS | INMON | KIMBALL |
| Business decisions requirements | Strategic | Tactical |
| Data integration requirement | Enterprise Wise integrator | Individual business requirement |
| Data structure requirement | Data that meet multiple and varied information needs and-metric data | KPI, business performance measure & scoewcards requirements |
| Persistency of data in source system | Source System have high rate of change | Source System are quite stable |
| Skill Sets | Bigger team of specialists | Small team of generalists |
| Time constraint | Longer time required | Urgent delivery |
| Cost to build | High Start-up Costs | Low start-up Costs |

**Question 6**

**List Down data ware housing Schema & ETL Product?**

**Answer:**

Data warehousing schema:

* Star schema
* Snowflake schema
* Fact constellation

ETL products:

* SAP
* Talend
* Oracle Data Integration
* Information
* CaER

**Question 7**

**What is Business Intelligence & why do we need?**

**Answer:**

* Business intelligence (BI) is the techniques and tools for the transformation of raw production and operational data into meaningful and useful information for business analysis purpose for various levels
* BI systems based on data warehouse technology, which gathers information from a wide range of operational systems.
* Why do we need:
* To measure, manage, and improve on the performance of individuals, processes, teams and business units for a specific area.

**Question 8**

**What is Data Mining?**

**Answer:**

Data mining is the bridge between statistics and computer science. It is used to uncover patterns in large sets of data.

**Question 9**

**What is differences between Strategi Vs Analytical Business Intelligence & why do we need?**

**Answer:**

* Strategic business intelligence: Management collaborates and agrees on a strategy and a method in which they would like to see information presented. Example, in maps, scorecards, reports, or dashboards
* Analytical business intelligence: Once Strategic BI sets the foundation in the form of key performance metrics, then analytical BI is employed to identify the source of an issue once it has be uncovered. Tolls like analytic dashboards, OLAP, predictive analytics and queries are utilizedto determine the location or cause of major problem.

**Question 10**

**List Down Business Intelligence Products?**

**Answer:**

* SAP
* InetSoft
* Microsoft
* SAP Business Objects
* MicroStrategy
* Yellowfin

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