

देव संस्कृति विश्वविद्यालय

शान्तिकुन्ज, हरिद्वार

आन्तरिक मूल्यांकन परीक्षा - INTERNAL EVALUATION TEST

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परीक्षार्थी के हस्ताक्षर Signature of student's

परीक्षक के हस्ताक्षर Signature of Examiner

And 1. Data Mark

- The term data mark means a data store that is subsidiary to a data warehouse of integrated data. It is a subset of Data warehouse.
- The data mart is directed at a fartifien of data (often Called a Gullert area) that is created for the use of a dedicated group of users.
- · A data mark can be a set of denormalized, Summarized, or aggregated data.

 Types of data marks.
- Defendent data mark Partitioned Segments within an enterfrise data warehouse.
- Indefendent data masts act as a standalone System that doesn't vely on a data wase-house.
- Hybrid data mark Combine data from existing data warehouses and other oberational survey.

Steps in Inflementing a Datamart

Designing -> Constructing -> Polulating -> Accessing -> managing

Example.

We can take the example of the student Information system of a university.

Here, the seterate informations like Pertonal details, a cademic details, exam marks, etc. one

Connected by was dimensional tables that are some or subsets of each other.

These Connected marks via a confirmed student dimension makes it easter for OLAP fools

to use the data and allows nonstellabilists to do much of the work.

Ay 2 OLAP- online Analytical Preprocessing

· 91 is a computing method that enables users to easily and selectively extract and avery

data in order to analyze of from different boths of view.

In other words, OLAP is the brocess of creating and Summarizing historical, multidimentional

· to helf uters understand the data better

· Provide a basis for informed decisions

· Allow users to manifulate and explore data themselves, easily and intuitively.

working of elap

- Data is Collected from multiple data sources and stored in data warehouses, then cleanted and organized into data marks. Cubes.

- Each OLAP Cube Contains data Categorized by dimensions, derived by dimensional tables in

the data wavehouses.

- Drienkens are then Polulated by members that are organized herorchically.

- The 5 tyles of ELAP analytical obradiens are - Roll up, Drill-down, stree, Dice and Prof.

Need for OLAP

Need 100 cum Survey Roblems Such as Market analysis and financial forecasting.

The burners hoblems are characterized by the need to retrieve large number of records from very large data Sets_and Summare them.

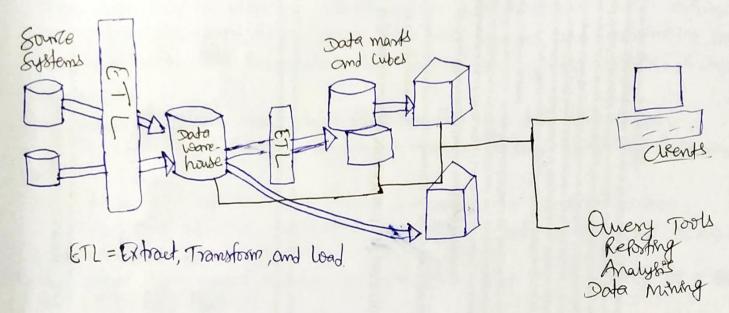
- It is very world in trend analyses, francial relating, Sales forecasting, budgeting and other Planning Purposes.

- Aw 1 In today's Comfetitive buthers environment, it reavens agree access to a data strage warehouse, organized in a manner that will improve business Performance, deliver tast, accurate, and relevent data injeghts.
 - Bushess intelligence archifecture has emerged to meet those reautrements, with doubt wasehousing as the backbone of these processes.
 - Buthers Intelligence architecture is refers collectively to the tools and technologies used for the Collection, integration, analysis, and visualization of data.
 - The raw data which we collect from different data barries transform into Comminchensive data or meaningful information using business intelligence technologies.

Role of data warehouse in business intelligence

- Data warehousing and Business intelligence often go hand in hand, because the data made available in the data warehouses are central to the Business intelligence
- Business Intelligence fools like Tableau, Chartro, looker, etc, use data from the data warehouses for hurloses like away, reposting, analytics and data mining.
- Bushess Intelligence with data warehousing is helpful in oberational effecting which includes ERI relosting, KII tracking, risk management, froduct profitability, costing,
- 91 also helps in Customer interaction which includes sales analysis, sales forecasting, Segmentation, Campaign Planning, Customer Profitability, etc.

Architecture of Datawarehousing and BI



Combonents of the Data Warrehouse

The data warehouse architecture is bated on a relational database management system (ROBMS) Server that functions as the Central relositing for informational data.

following one the Combinents of the Data warehouse:

. Data werehaute Databate

The Central data warehouse database is the cornerstone of the data warehousing environment.

- Certain data wonchause affitutes, such as very large database fize, adher away processing and the need for flexible were view creation have belone drivers for different technological approaches to the data warehouse database.

Sourcing, Acquisition, Cleanup and Transformation Tools The Lata Sourcent, Cleanuf, transformation and migration tools Perform all of the Conversion -ons, Summarizations, Key changes, Structural Changes, and Condensations needed to transform destorate data into information that Can be used by the decision Suppost tool.

Metadata

- Metadata is data about data that describes the data warehouse.

- It is used for building, meintaining, managing and using the data warehouse.

Access Tools

The type of alless tools we choose determines the level of access: Owent and relocation, Application development, south mining and oral tools.

Data Marts.

The term data maste means. A data store that is subsidiary to a data warehouse of integrated data.

- souta marses can be defendent, independent or Hybrid.

Data workhouse Administration and management

It kickudes Security and knowly management, munitivery updates from the multiple Sources, data analyty cheeks, managing and uldating meta data, lunging data, relitating , Subsetting and distributing data, backul and recovery and data wavehouse storage management.

Intormation Delivery System of is used to enable the Process of Subscribing for data warehouse information and having it delivered to one or more destinations.