

Abinitio Syllabus

Course Outline

- AbInitio installation
- GDE and CO-OP
- sandbox level information
 - Product Constituents
 - Product Architecture
 - The Graph Model
 - Parts of typical graph
 - Sandbox structure
- DMLs
- Transform Functions

Basic components

- Input Components
 - Input file
 - input Table
 - Intermediate file
 - Lookup file
 - Output file
 - Output table
- Parameters

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- Filter by Expression
- Reformat
- Redefine Format
- Sort
- Join
- Replicate
- Dedup
- Aggregate
- Rollup
- Scan
 - Component definition
 - Parameters for component
 - Runtime behaviour of component
 - Examples of using component

Database components

- Database connection
- input/output Components
- Environment Variables

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Parallelism

- Component Parallelism
- Pipeline Parallelism
- Data Parallelism
- A Multidirectory

Data partitioning/ Departitioning components

- Partition by Round-robin
- Broadcast
- Partition by Key
- Partition by Expression
- Partition by Range
- Departitioning Components
- Gather
- Concatenate
- Merge
- Interleave

Project Setup

- EME
- Branch
- Tag

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Classroom

| Corporate

| Online

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- check in
- check out

Batch jobs-Tivoli introduction

- Tivoli product
- Job definition
- Scheduling
- Runtime behaviour

Note: Practical sessions will be covered for all the topics mentioned above.

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Data warehousing Syllabus

- Evolution of Datawarehousing - History
- The need of Datawarehousing
- Why Datawarehousing
- What is Datawarehousing – The Definition
 - Subject -Oriented
 - Integrated
 - Non – Volatile
 - Time Varying
- Datawarehousing Architecture
 - Data Source Layer
 - Data Extraction Layer
 - Staging Layer
 - ETL Layer
 - Data Storage Layer
 - Data Logic Layer
 - Data Presentation Layer
 - Metadata Layer
 - System Operation Layer
- Dimension table
- Fact table

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- Additive Facts
- Semi Additive Facts
- Non – Additive Fact
- Cumulative
- Snapshot
- Attribute
- Hierarchy
- Types of Schema
 - Star Schema
 - Snow Flake Schema
 - Fact Constellation Schema
- Slow Changing Dimension
 - SCD1/SCD2/SCD3 – Advantages/ Disadvantages
- OLAP and OLTP
 - Types Of OLAP
 - Multi-Dimensional (MOLAP)
 - Relational(ROLAP)
 - Hybrid(HOLAP)