Day 1

- Self Introduction
- Basic Introduction on SQL , Informatica , Unix
- Databases available in Market
- Oracle Data base ,
- Data types
- Role of Database in ETL
- How to install Informatica 10.4 & Oracle 11G In windows
- Installation Steps
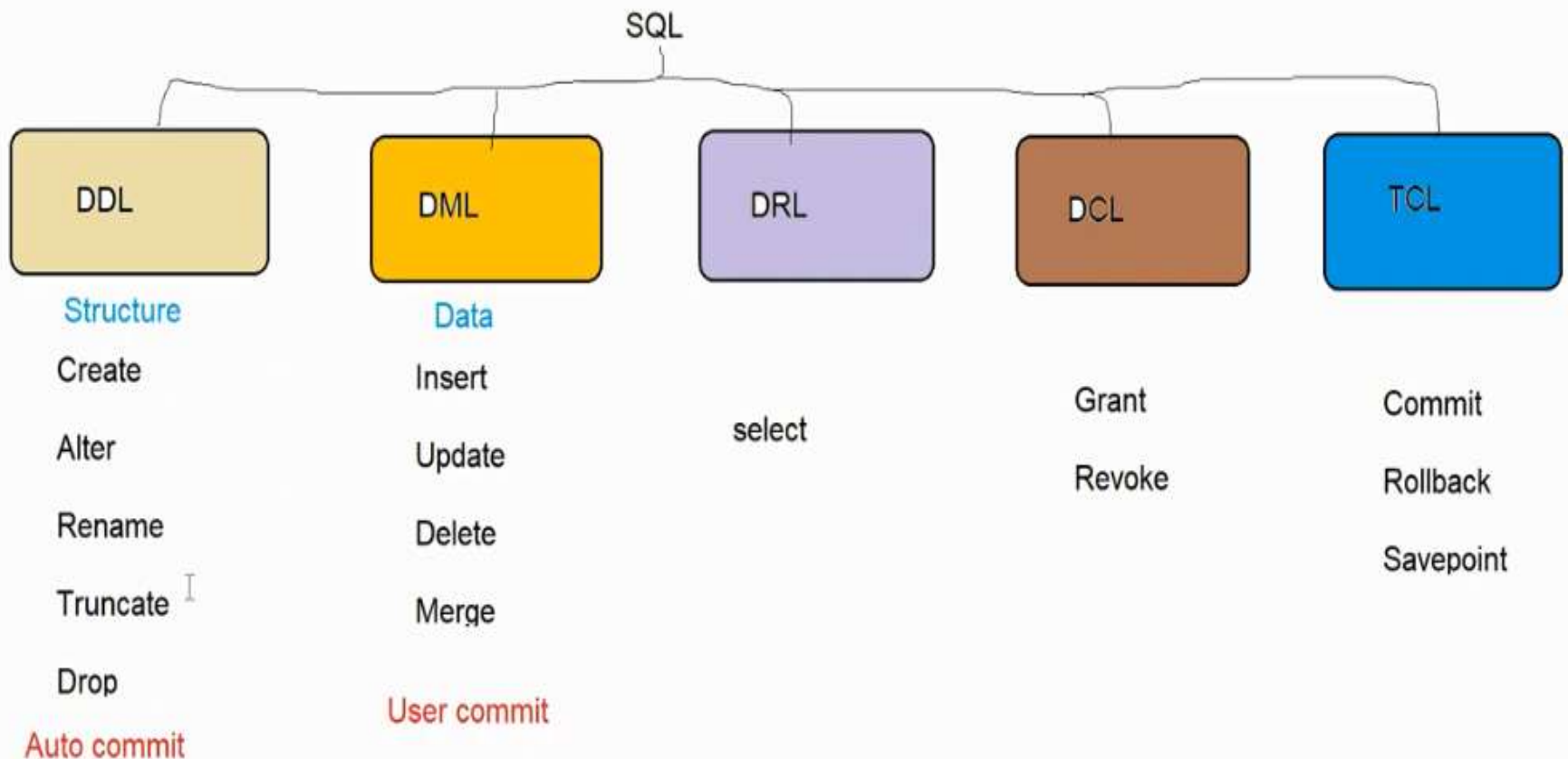- SQL Day 1 Notes , Exercises material sharing

Day 1

Informatica Power center Installation
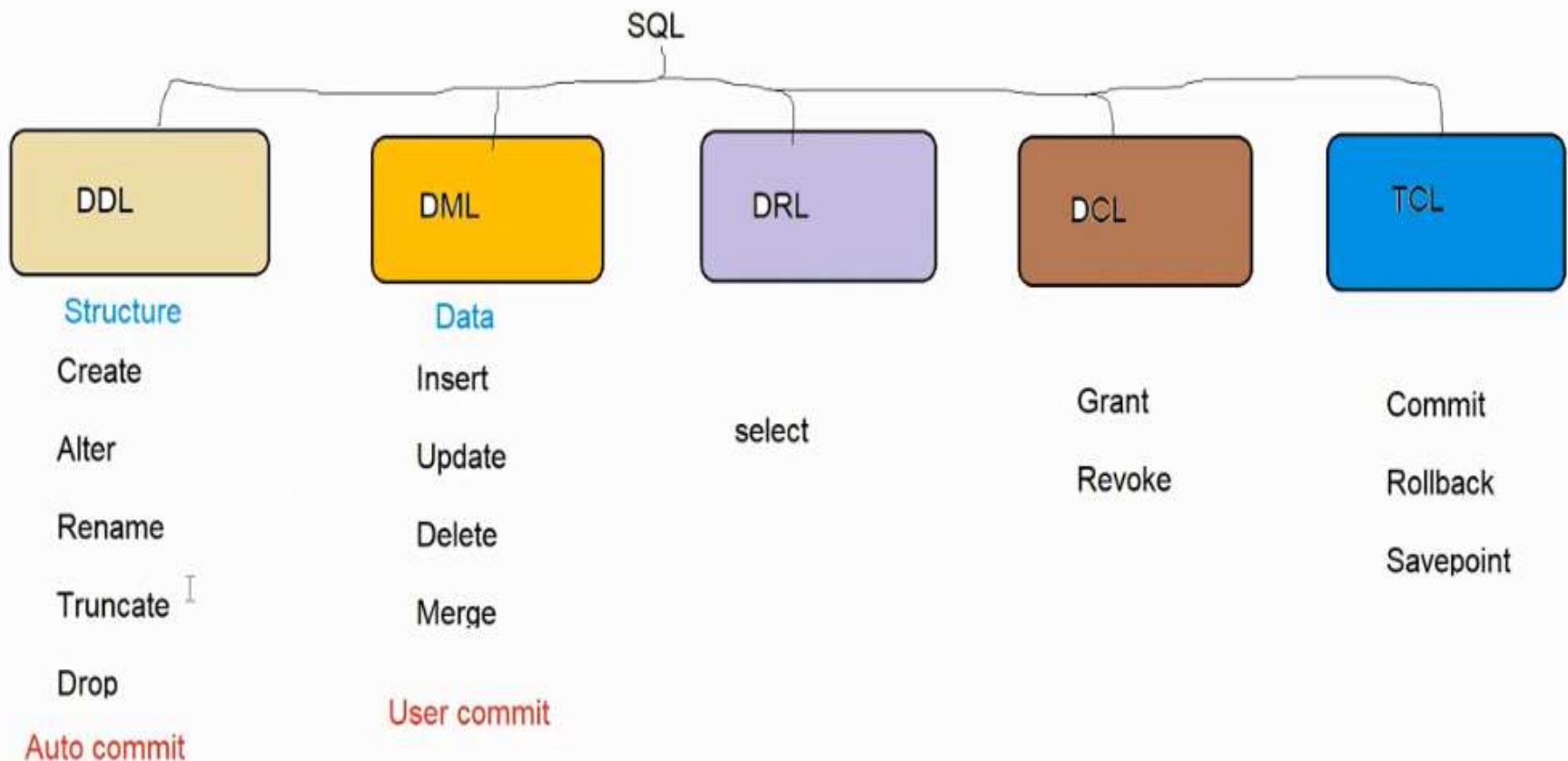
Oracle 11g Installation

Unix Installation

Day 1

5 Different languages & Executing each command with Examples & usages

SQL

DDL	DML	DRL	DCL	TCL

Structure	Data			
Create	Insert		Grant	Commit
Alter	Update	select	Revoke	Rollback
Rename	Delete			Savepoint
Truncate	Merge			
Drop				
Auto commit	User commit			

each command with Examples & usages

SQL

DDL	DML	DRL	DCL	TCL

Structure
Create
Alter
Rename
Truncate
Drop

Auto commit

Data
Insert
Update
Delete
Merge

User commit

select

Grant
Revoke

Commit
Rollback
Savepoint

Day 2

- Review on Exercises of Day 1 & completion if pending
- Doubts clarification
- Introduction on Constraints
- 5 Different keys in SQL & elaboration
- Practice on each 5 Different keys on SQL
- Day 2 Notes , exercises materials sharing

Day 3

- Review on Exercises of Day 2 & completion if pending
- Doubts clarification
- Continue on 5 each constraints
- Practice of each constraints
- Day 3 Notes , exercises material sharing

Day 4

- Review on Exercises of Day 3 & completion if pending
- Doubts clarification
- Continue on 5 each constraints
- Day 4 Notes , exercises materials sharing

Day 5

- Review on Exercises of Day 4 & completion if pending
- Doubts clarification
- Introduction on Single row functions
- Practice on each Single row functions
- Day 5 Notes , exercises materials sharing

Day 6

- Review on Exercises of Day 5 & completion if pending
- Doubts clarification
- Introduction on Single row functions
- Practice on each Single row functions
- Day 6 Notes , exercises materials sharing

Day 7

- Review on Exercises of Day 6 & completion if pending
- Doubts clarification
- Introduction on Joins , Implicit methods of Joins
- Types of Joins
- Purpose of Joins in real time
- Practice of each Joins
- Day 7 Notes , exercises materials sharing

Day 8

- Review on Exercises of Day 7 & completion if pending
- Doubts clarification
- Continue on Joins , Implicit methods of Joins
- Ansi method & differences
- Introduction on Aggregate functions
- Practice of each Aggregate functions
- Day 8 Notes , exercises materials sharing

Day 9

- Review on Exercises of Day 8 & completion if pending
- Doubts clarification
- Continue on Joins
- Implicit methods of Joins
- Ansi method of Joins & differences
- Introduction on Aggregate functions
- Practice on each Aggregate functions
- Day 8 Notes , exercises materials sharing

Day 10

- Review on Exercises of Day 9 & completion if pending
- Doubts clarification
- Introduction On Sub queries
- Types of Sub queries & its types , Practices
- Introduction on Set operators
- Union , Union all , Intersect ,Minus
- Practice of each Aggregate functions
- How to find duplicate record & delete
- Introduction to Merge concept
- Day 10 Notes , exercises materials sharing

Day 11

- Important interview questions on SQL
- Preparation of Interviews on SQL

Day 12

- Important interview questions on SQL
- Preparation of Interviews on SQL

Day 13

- Important interview questions on SQL
- Preparation of Interviews on SQL

Day 14

- Important interview questions on SQL
- Preparation of Interviews on SQL

Day 15

- History of Data ware House
- Data base
- Excel sheet
- MS Access
- RDBMS
- Datalake

Day 15

- Business Intelligence part 1

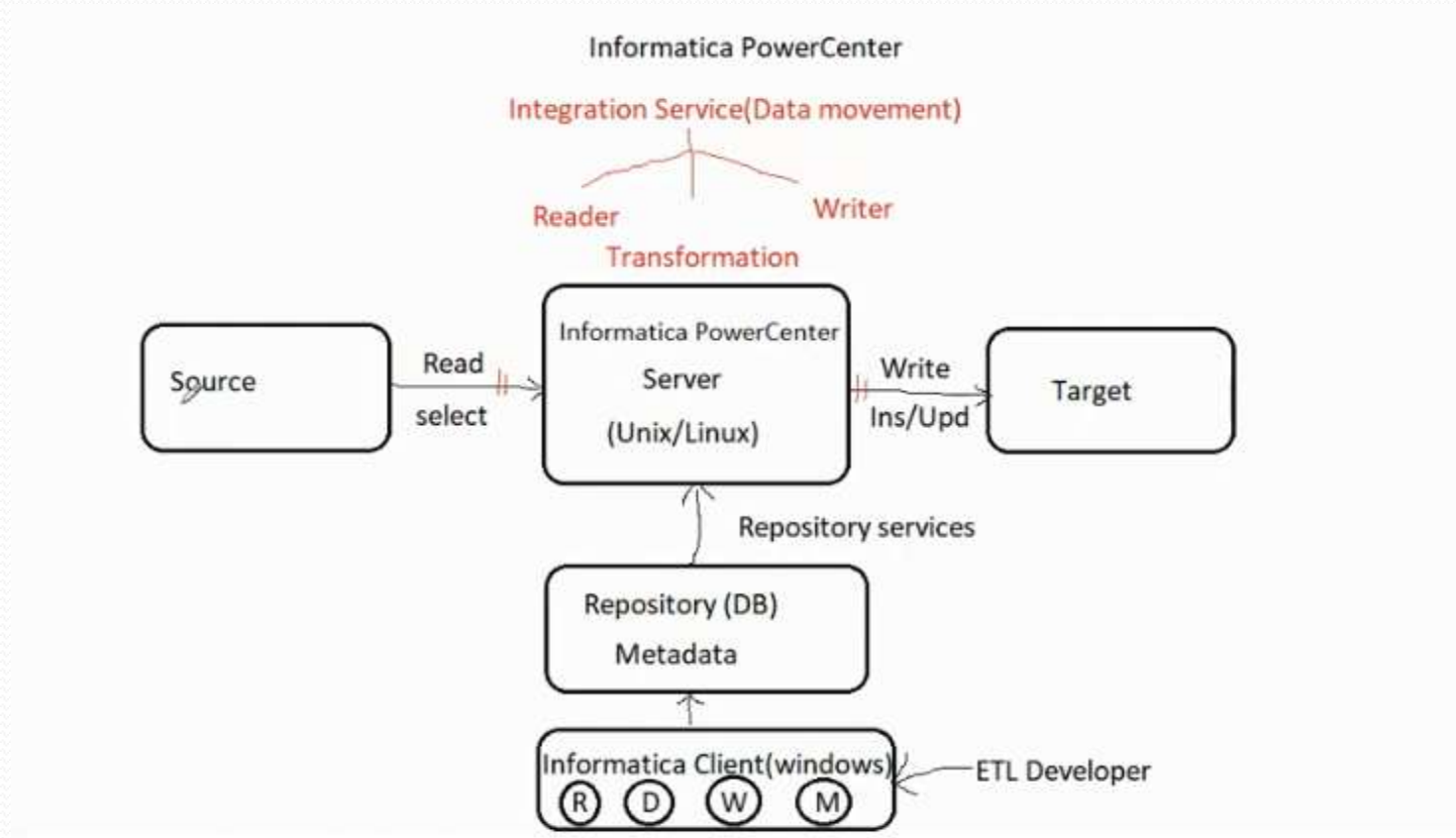- Data ware House

- Business Intellignce

Day 15

- OLTP , OLAP
- Databases avail in Market
- Cloud Data bases in Market
- Introduction on ETL
- Real time uses of ETL Process
- Introduction on Informatica
- Batch processing & Live processing
- Basic Introduction on IICS

Day 16

- Data ware House architecture
- Definition by WH Inmon and Kimball
- Why companies deploy DW
- 2 Different approach in DW
- Hybrid approach
- Dimension & fact table
- Star schema
- Snow flake schema
- Data ware house vs Data lake
- Data ware housing Roles
- Popular ETL Tools
- Popular Data Visualization tools

Day 17

- Informatica Architecture

Day 17

- Repositor manager
- Designer
- Workflow manager
- Monitor
- Test Mapping

Day 18

- Table to table loading
- FF to Table Mapping loading
- Multiple Delimiter loading
- Table to FF loading

Day 19

- Fixed width file loading
- Indirect file loading

Day 20

- Transformations
- Types of Transformations
- Active and Passive
- Conneted and unconnected
- Source qualifier Transformation
- Mapping with SQT
- SQT Properties

Day 21

- Source qualifier 2 Tables Join
- Source qualifier 3 Table join
- Source qualifier with Fal file mapping

Day 22

- Expression Transformation
- Sungle row functions
- Mapping with Exp Trans
- Analytical Functions
- Epoc timing converter

Day 23

- Joiner Transformation
- Table and Table Join
- Table & flat file Join
- Normal ,Master , Detailouter, Full outer Join
- 3 table Join
- Sorter Transformation Mappings
- Duplicate removal -Distinct

Day 24

- Aggregator Transformation Mappings
- Sum , Max , Min,Avg , Count
- Performance issue Sorting + Aggregator
- Router Transformation Mappings
- Groups & Default

Day 25

- Rank Transformation
- Rank , Dense rank , Rownumber
- 1ST , 2 nd Highest salary

- Sequence generator
- Next val , curr val

Day 26

- Connected Lookup Transformation Mappings
- Diff Between Join & Lookup
- Falt file & Table ,2 Table Join , 3 Table Join
- Doubt Session for all

Day 27

- Unconnected Lookp up Transformation
- Expression Logic
- 2 Table unconnected
- Deff Connected & unconnected

Day 28

- Why unconnected lookup
- Condition Based
- Multiple return policy

Day 29

- Update Strategy
- SCD 1 , SCD2 , SCD3
- Insert , Update
- Version method , flag method ,Date method
- How to load Odd & Even no

Day 30

- Union Transformation
- Union All Transformation
- Many to single Union & single To Many Router

- Normalizer Trasnformation
- Columns to Row presentation

Day 31

- Transation control Transformation

- SQL Transformation

```
TC_COMMIT_BEFORE
TC_COMMIT_AFTER
TC_ROLLBACK_BEFORE
TC_ROLLBACK_AFTER
TC_CONTINUE_TRANSACTION    - Default
```

Day 32

- Stored procedure Transformation
- Passive – Exp Transf , Seq gen tran , Stored proc Transf
- Stored proc – Connected & unconnected

- Java Transformation

The Java transformation provides a simple, native programming interface to define transformation functionality with the Java programming language.

Day 33

- Slowly changing Dimensions
- SCD1 ,2,3

Day 34

- Reusable Transformation

- Mapplet

- Debugger

Day 35

- Parameters & Variables

- Compare

- Versioning

- Mapping level properties

Day 36

- Work flow level task part 1

Day 37

- Work flow level task part 2

Day 38

- **CDC – Change data capture**

- **Variables**

- **Target load ordering**

- **Constraint based ordering**
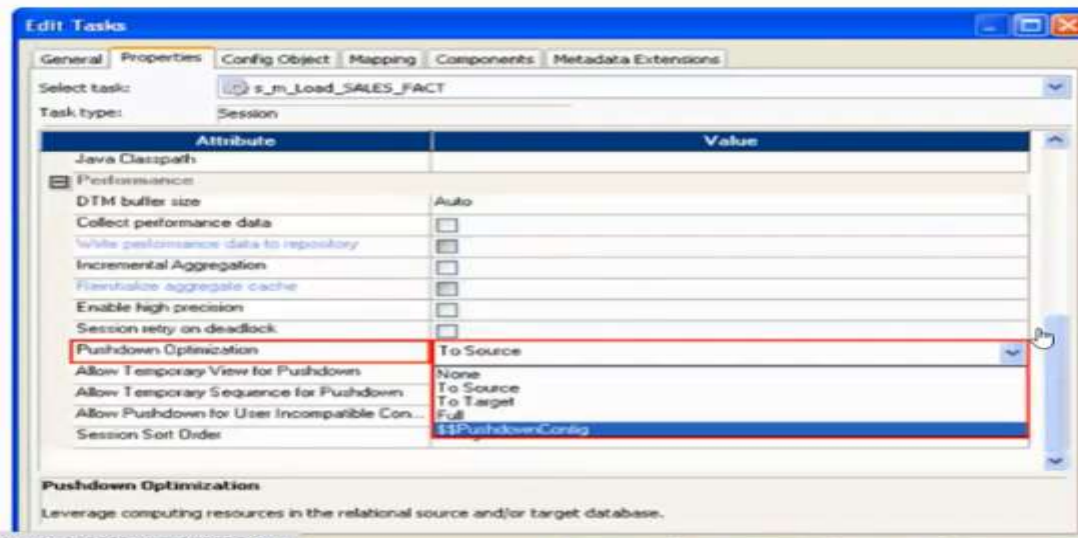
- **Workflow level properties**

Day 39

- Data base performance

- Partioning

- How to find there is a performance issue

```
Long running:
missing SLA
Timeout
session failed
CPU consumption
```

Day 40

- POD - Pushdown optimization

manager. You can open the session and choose the Source, Target or Full pushdown optimization as shown in below image.

- Converting transformation logic into SQL Query , Source – Select , Target – Insert
- But flat file POD Cannot be done

Day 41

- Portioning

```
Partitioning:   - Licenced property
=======================================

      -- Parallel processing


30 mins     Reader          transformation          writer



10 mins     Reader1         transformation1         writer1
            Reader2         transformation2         writer2
            Reader3         transformation3         writer3


1. Number of partition (thread)
```

Day 41

```
-----------------
Partition type

        1. DB Level partition  (at db level - not in informatica)
        2. Range Partition
        3. Passthrough partition (default)
        4. Round robin
        5. Hash Auto key
        6. Hash user key
```

Day 42

- EDW Size – 4000 Tera byte
- Out of 4000 TB We have used this much
- So we go for another DB

Day 43

- Resume preparation
- Sample resumes
- Suggestions for each candidate
- Domain selection
- Domain explanation

Day 44

- Different tools used in real time
- Schedulers - Control – M , UC4 , Autosys
- Jira , Git hub , Genkin
- Informatica versions
- Oracle versions

Day 45

- Project explanation
- Water fall methodology
- Agile methodology
- Project architedture

Day 46

- Sprint
- User story
- Deployment
- Complex issue
- D

Day 47

- Introduction to Unix
- Unix Installation – Ubuntu
- Unix commands for Informatica developers

Day 48

- Unix commands practice

Day 49

- Over view of all topics

Day 50

- Over view of all topics

END