



Module 1

DBMS Extensions and Example Data Warehouses

Lesson 2: Course topics and assignments



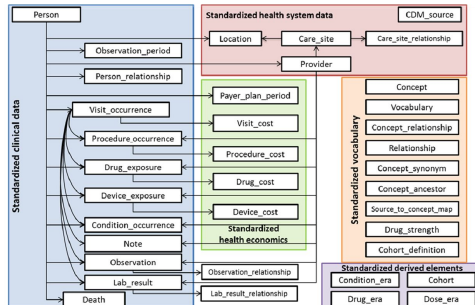
Lesson Objectives

- Understand course topics and flow
- Understand assessments especially practice and graded problems
- Install and configure Oracle server

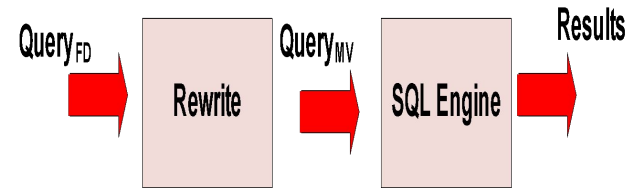


Course Artifacts

1: Example DWs



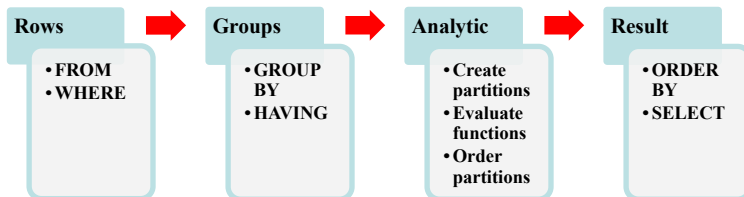
4: Materialized Views



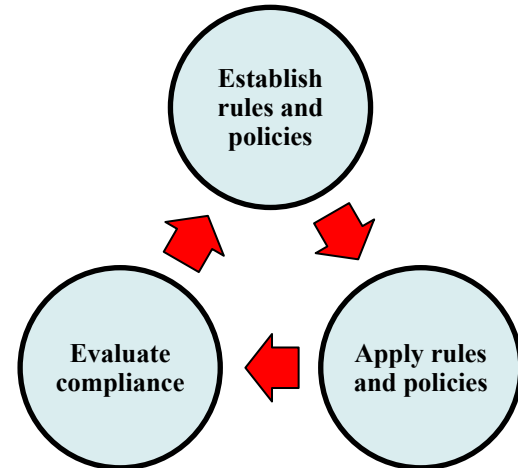
2: SQL Subtotal Operators



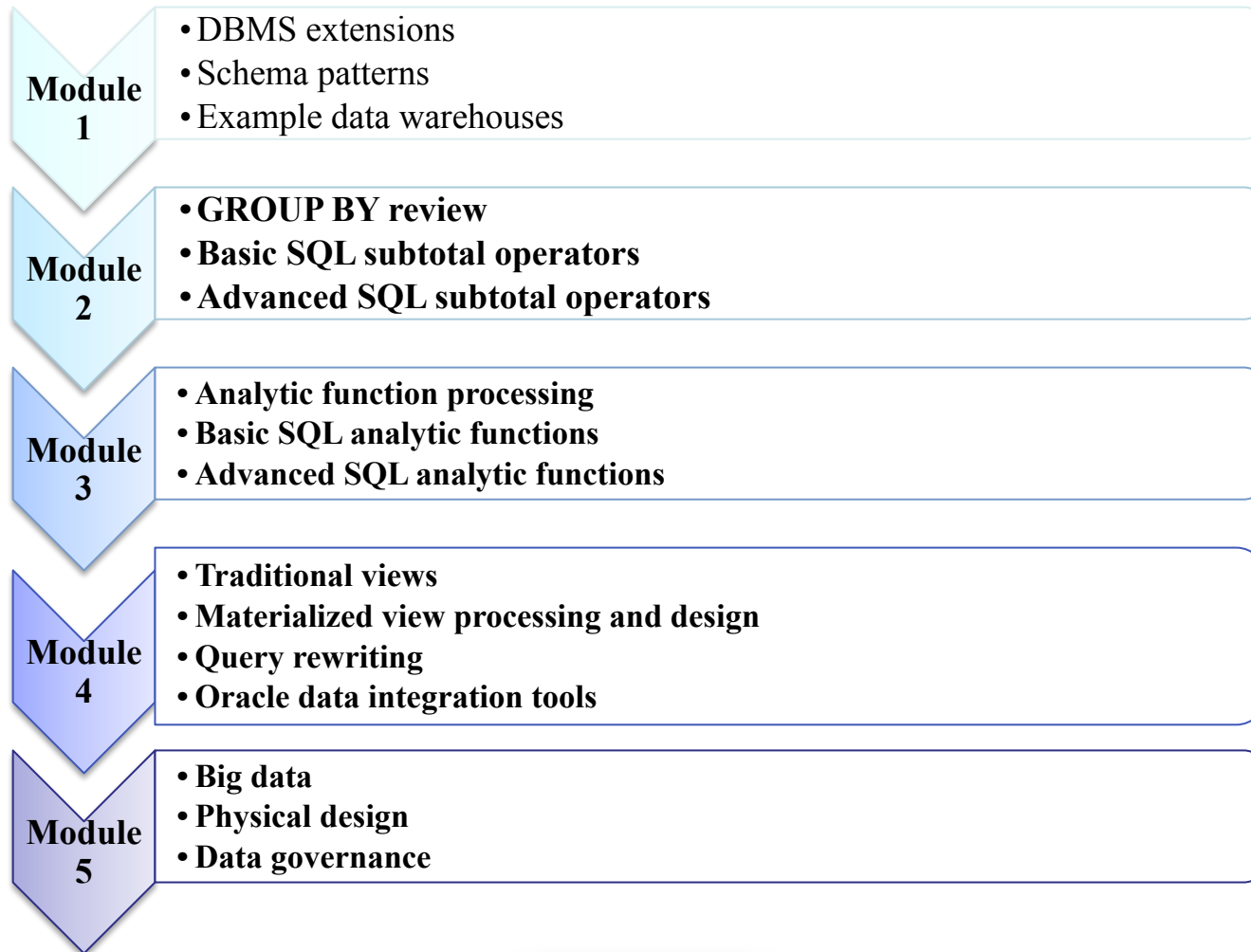
3: SQL Analytic Functions



5: Data Governance



Course Flow



Assignments

SQL Subtotal Operators

```
SELECT State, Month, SUM(Sales)
GROUP BY ROLLUP(State, Month)
```

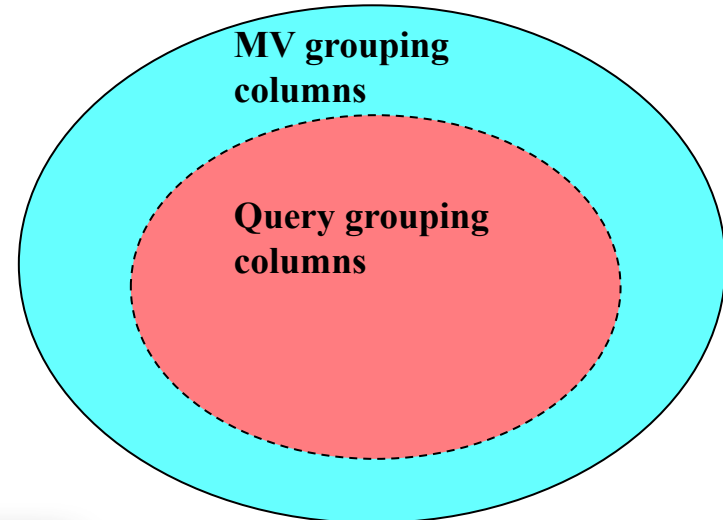
State	Month	SUM(Sales)
CA	Dec	100
CA	Feb	75
CO	Dec	150
CO	Jan	100
CO	Feb	200
CA	-	175
CO	-	450
-	-	750

SQL Analytic Functions

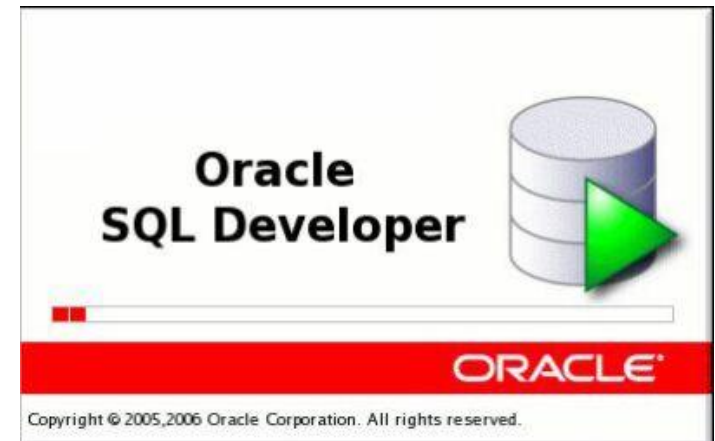
```
SELECT CustState, CustName,
       SUM(SalesDollar) AS SumSales,
       RANK() OVER (PARTITION BY CustState
                    ORDER BY SUM(SalesDollar) DESC)
       SalesRank
```

...

Query Rewriting



Tools



Summary

- Unified coverage of relational database support
- Coverage of important data warehouse administration topics
- Assignments for query formulation and materialized view usage
- Usage of Oracle server and client

