In-Memory Database Management 2013

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Começou semana passada mais um curso online nos mesmos moldes do curso do SAP Hana, 6 semanas de curso com vídeo aulas e um teste final que dá direito a certificação pra quem acertar mais de 50% das questões da semana e do teste final. O curso fala sobre banco de dados in-memory :rolleyes: , tecnologia principal do SAP Hana.

Agora os testes da semana podem ser feitos até a semana seguinte, ainda da tempo de participar.

A inscrição pode ser feita no [openHPI](#).

Programação do curso:

Week 1 (26.08.13 – 01.09.13)
Assignment 1 (26.08.13 – 08.09.13)
The Future of Enterprise Computing:

- Introduction
- New Requirements for Enterprise Computing
- Enterprise Application Characteristics
- Changes in Hardware
- A Blueprint of SanssouciDB

Week 2 (02.09.13 – 08.09.13)
Assignment 2 (02.09.13 – 15.09.13)
Foundations of Database Storage Techniques and In-Memory Database Operators Part 1:

- Dictionary Encoding
- Compression
- Data Layout in Main Memory
- Partitioning
- Delete
- Insert
- Update
- Tuple Reconstruction
- Scan Performance

Week 3 (09.09.13 – 15.09.13)
Assignment 3 (09.09.13 – 22.09.13)
Advanced Database Storage Techniques and In-Memory Database Operators Part 2:

- Select
- Materialization Strategies
- Differential Buffer
- Insert-only
- Merge

Week 4 (16.09.13 – 22.09.13)
Assignment 4 (16.09.13 – 29.09.13)
Joins, Aggregates and Optimizations:

- Parallel Data Processing

- Indices
- Join
- Aggregate Functions
- Parallel Select

Week 5 (23.09.13 – 29.09.13)
Assignment 5 (23.08.13 – 06.10.13)
Further Optimizations and Recovery:

- Workload Management
- Parallel Join
- Parallel Aggregation
- Logging
- Recovery
- On-the-fly Database Reorganization

Week 6 (30.09.13 – 07.10.13)
Assignment 6 (30.09.13 – 13.10.13)
Foundations for a New Enterprise Application Development Era:

- Implications
- Views
- Handling Business Objects
- Bypass Solution
- Excursion 1: Aggregate Caching
- Excursion 2: Point of Sale Explorer

Week 7 and 8 (07.10.13 – 20.10.13): **Final Exam**