

Advantages of integrating Oracle and Hadoop

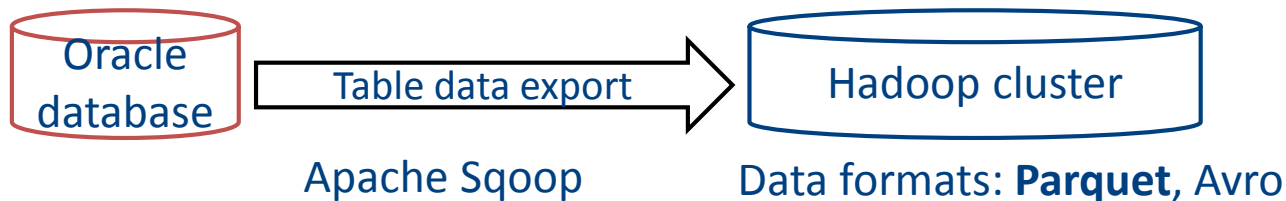
- Best of two worlds:
 - Oracle: Online Transactional System
 - Hadoop: Large-Scalable Data Warehouse
- Hybrid systems:
 - Move (read-only) data from Oracle to Hadoop
 - Query Hadoop data from Oracle (using Oracle APIs)
 - Also possible: query Oracle from Hadoop
- Increase scalability and lower ratio cost/performance
 - Hadoop data formats and engines for high performance analytics
 -without need of changing the end-user apps connecting to Oracle

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Offloading from Oracle to Hadoop

- Step1: Offload **data** to Hadoop



- Step2: Offload **queries** to Hadoop



Making data sources transparent to end-user

- Hybrid views on Oracle
 - **Recent** (read-write) data in **Oracle**
 - **Archive** data in **Hadoop**
 - **Advantages:** Hadoop performance with unchanged applications (Oracle APIs)

Split point has to be updated after each successful data offload

```
create view hybrid_view as
  select * from online_table where date > '2016-10-01'
union all
select * from archival_table@hadoop where date <= '2016-10-01'
```