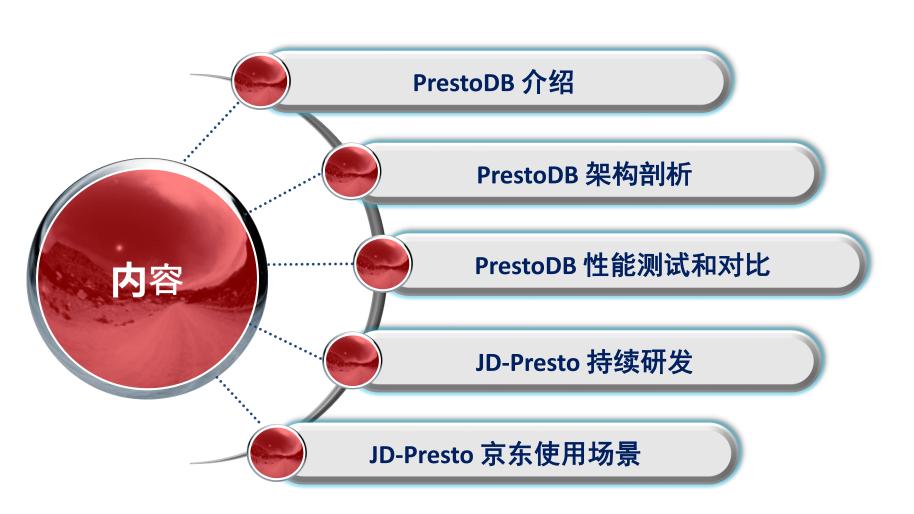
PrestoDB在京东的应用实践

JD-运维部-数据库架构组

分享人: 吕信

邮箱: bjlvxin@jd.com





PrestoDB介绍-起源

Facebook2012年秋季 开始启动PrestoDB项 目,其主要目的是为了 解决Hive查询的高延时 性

开源社区有56个 contributor

2012年

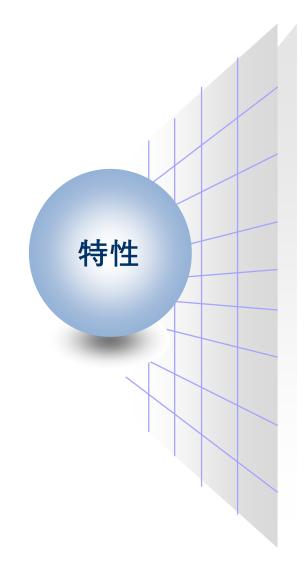
2013年

2014年

2015年

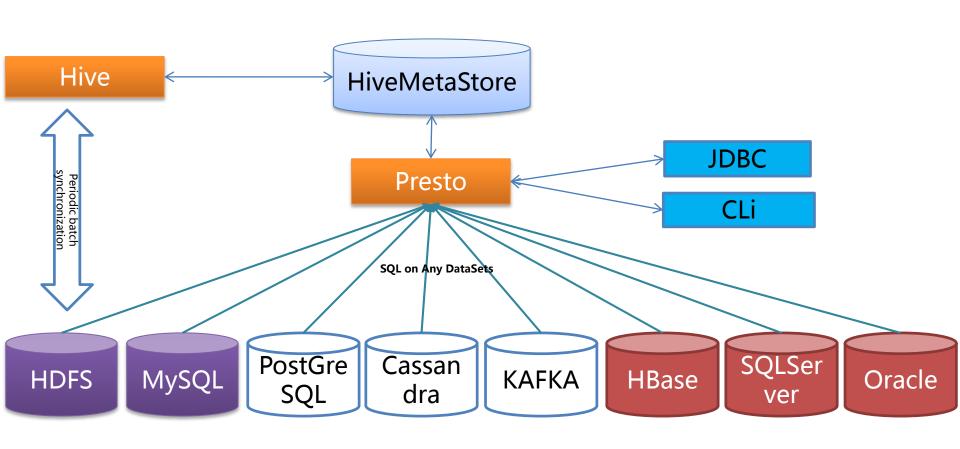
2013年冬季, PrestoDB 开源

目前最新版本 Presto-0.100

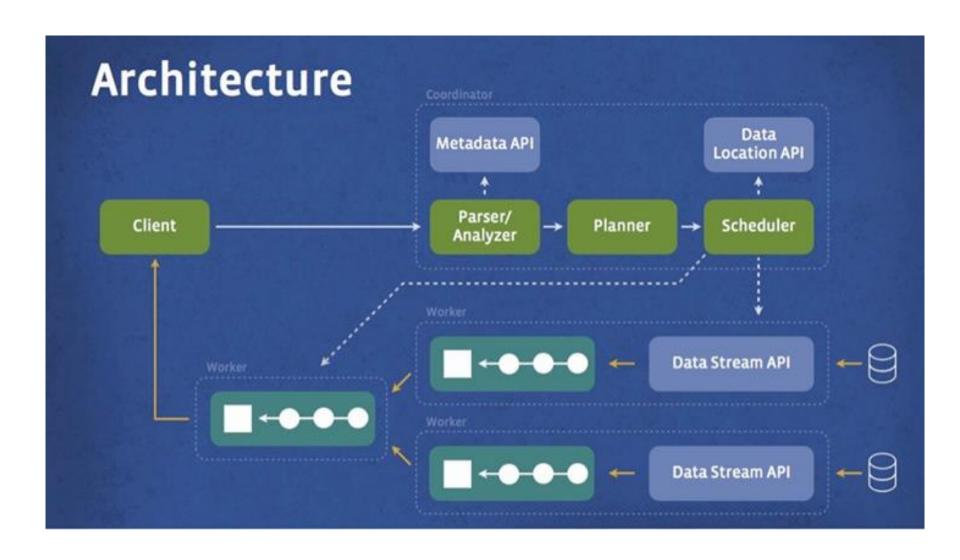


- Distributed SQL Query Engine
- Interactive data Analysis
- **GBs to PBs**
- **IV** Based On PipeLine
- V ANSI SQL syntax
- **Query across multiple DataSources**

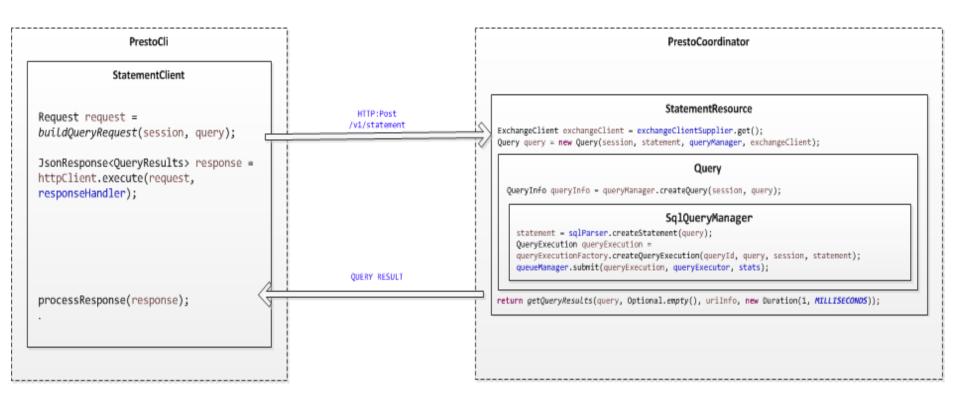
PrestoDB架构剖析-整体架构

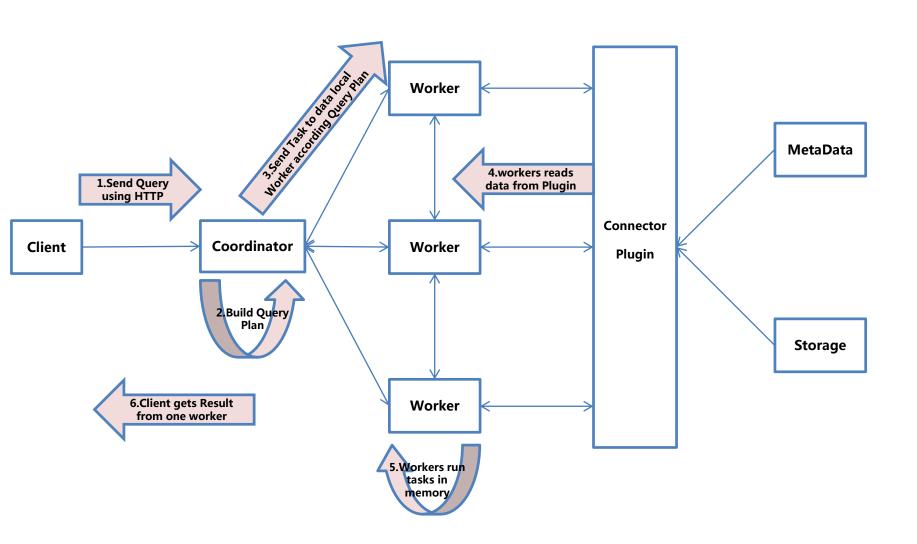


PrestoDB架构剖析-整体架构(官方) JD.COM京东



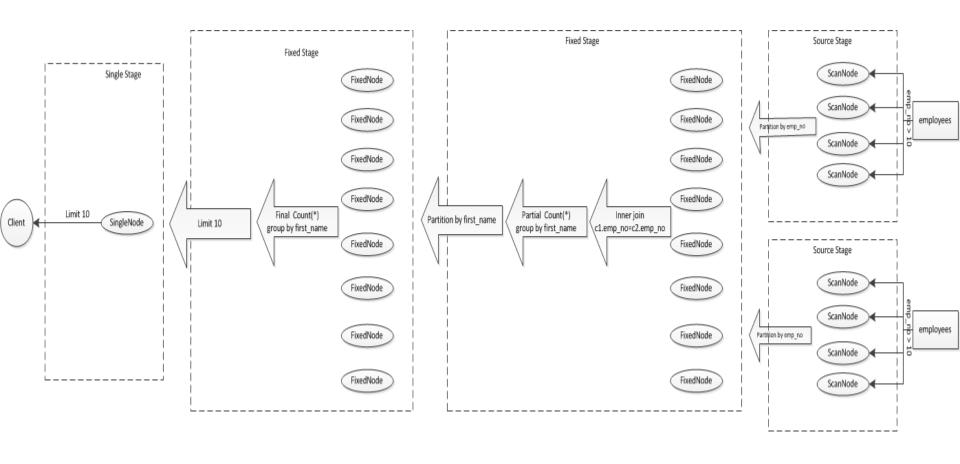
PrestoDB -查询执行



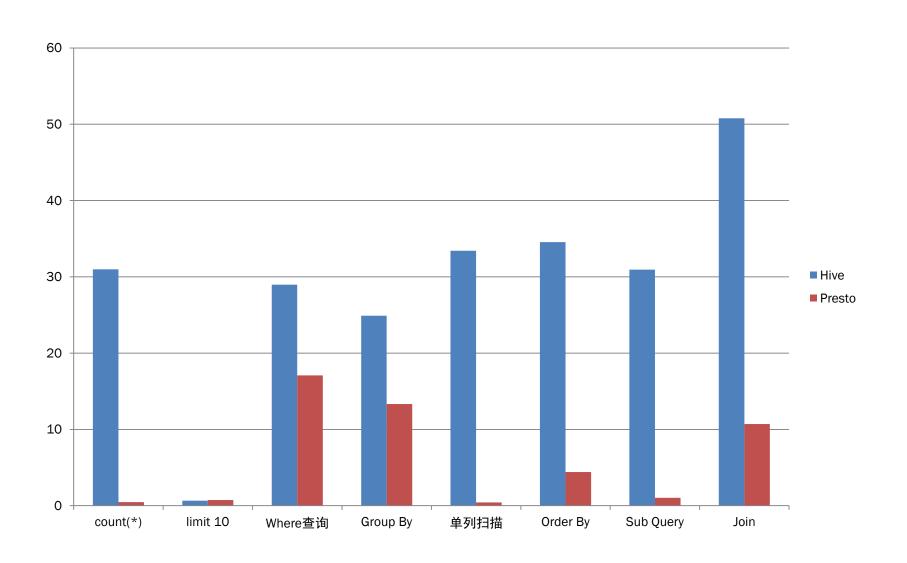


PrestoDB -查询执行

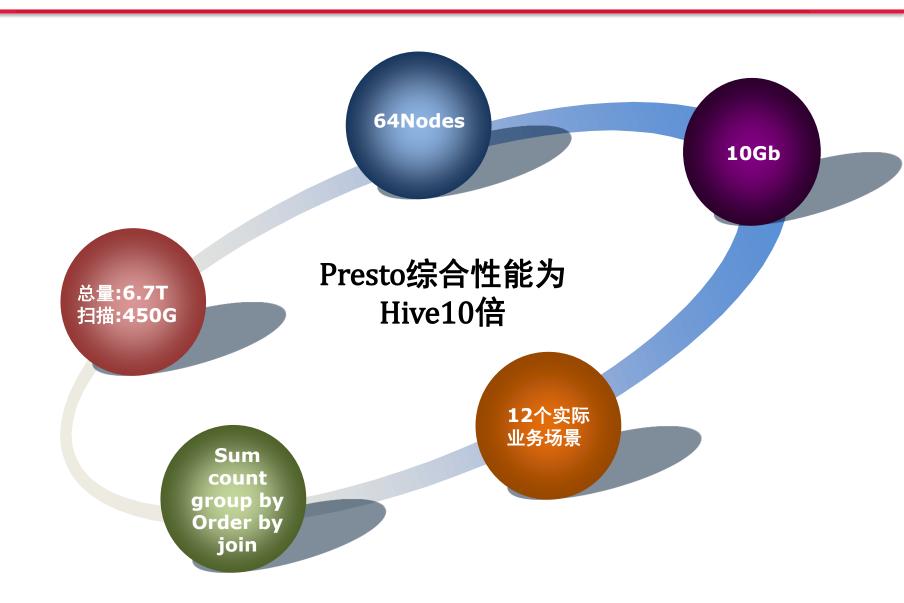
select c1.first_name, count(*)
from employees c1 join employees c2
on c1.emp_no = c2.emp_no
where c1.emp_no > 10 group by c1.first_name limit 10;



PrestoDB -性能测试和对比



PrestoDB -性能测试和对比

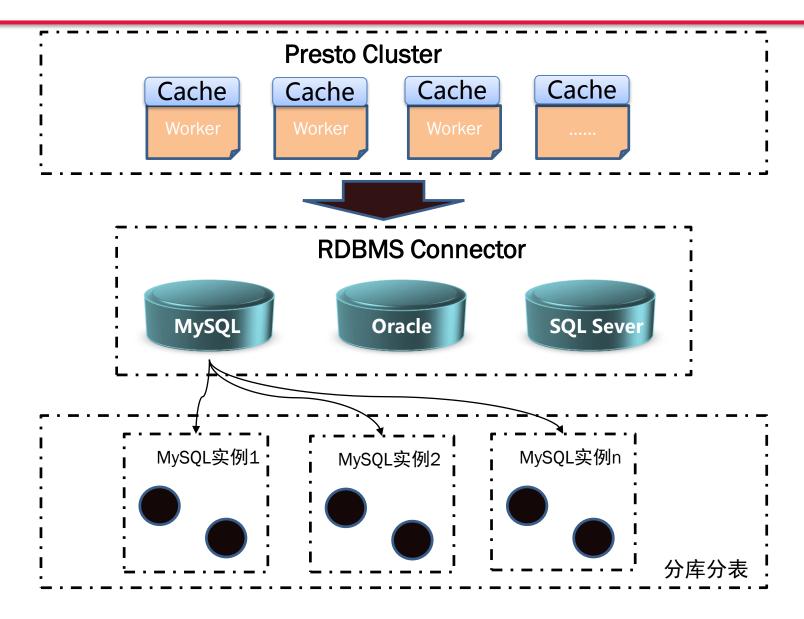


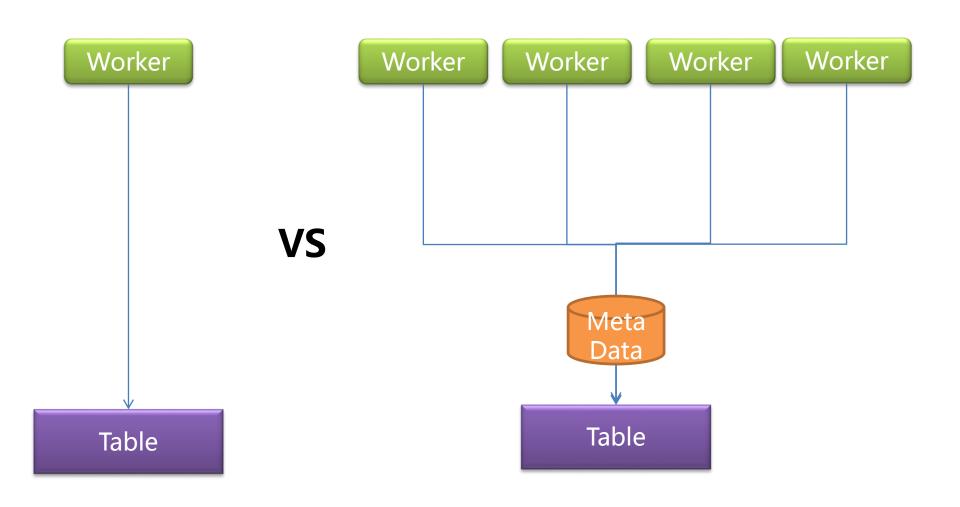


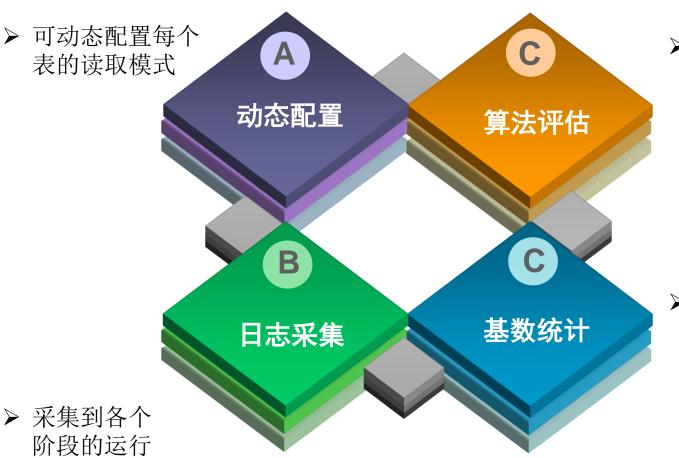
PDBO-简介

支持分库分表 支持数据缓存 数据并行读取 性能智能优化

PDBO-支持分库分表与Cache





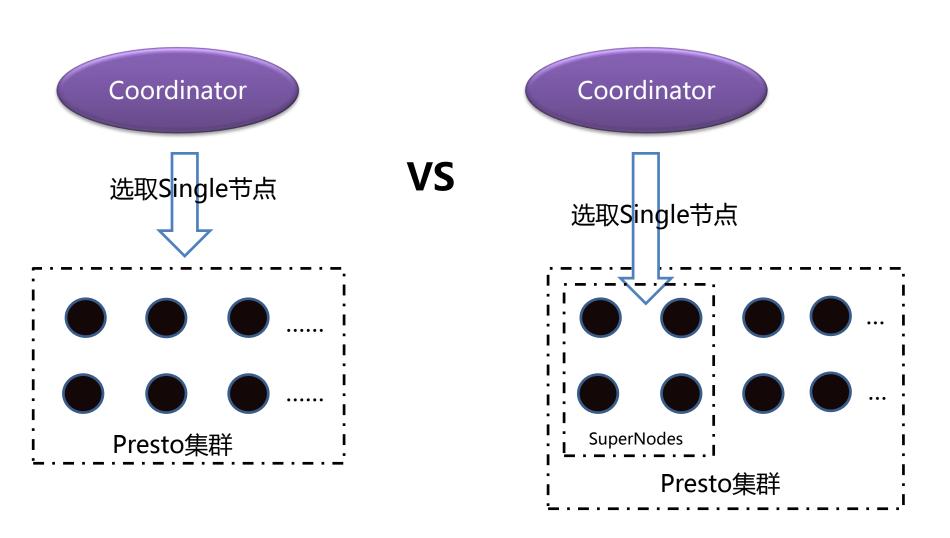


▶ 分析得出各阶段 的动态步长,并 将步长写入到数 据库;

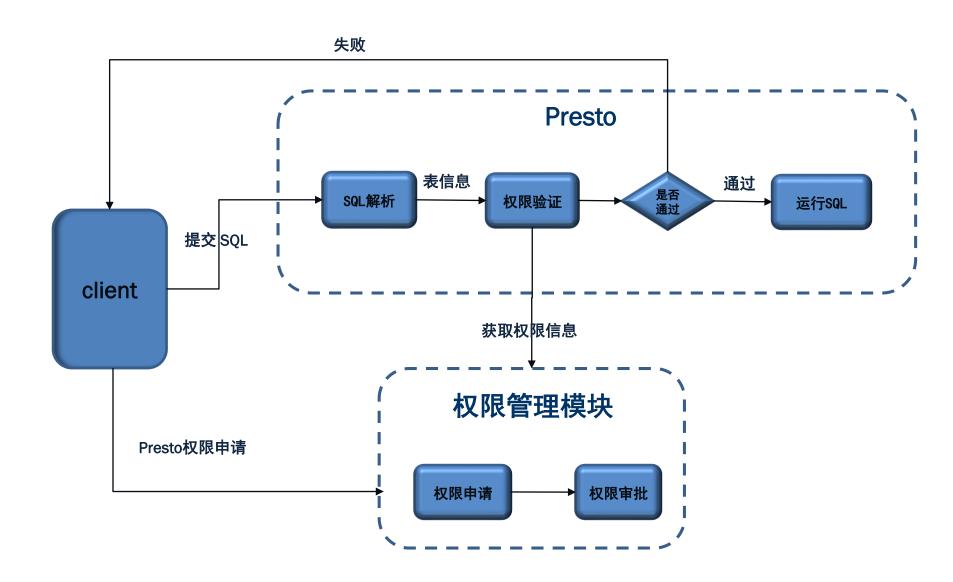
> 将统计表的各项 基本数据,例如 总行数,各阶段 行数分布等;

日志

数据量瓶颈突破



JD-PRESTO 权限控制



Insert通用语法为:

INSERT (INTO | OVERWRITE)
TABLE table_name [PARTITION]
[values] [query]

普通的Insert数据到表中,包括单条记录的插入

支持Insert into table partition语法,支持多级分区

支持Insert overwrite table语法,可与partition 同时使用

支持Insert 动态分区

Create通用语法为:

CREATE TABLE TABLE_NAME
[(COLUMN_DEFINITIONS)
[PARTITIONED BY
(PARTITION_DEFINITIONS)]] | [[PARTITION (PARTITION_NAMES)] AS
QUERY]



CREATE TABLE TABLE 1 AS SELECT * FROM EMPLOYEES



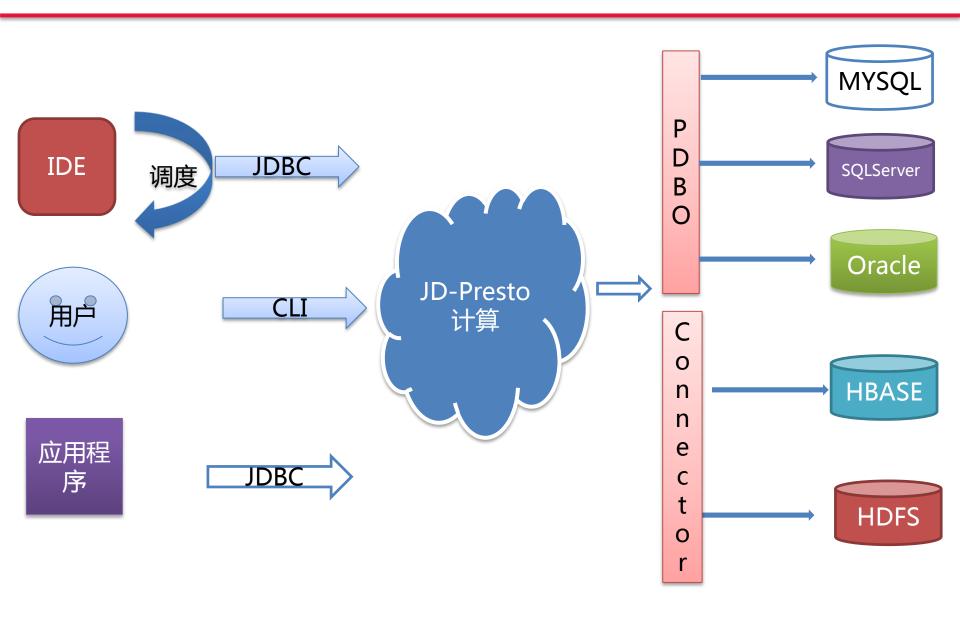
CREATE TABLE TABLE 1 (ID BIGINT, NAME VARCHAR)

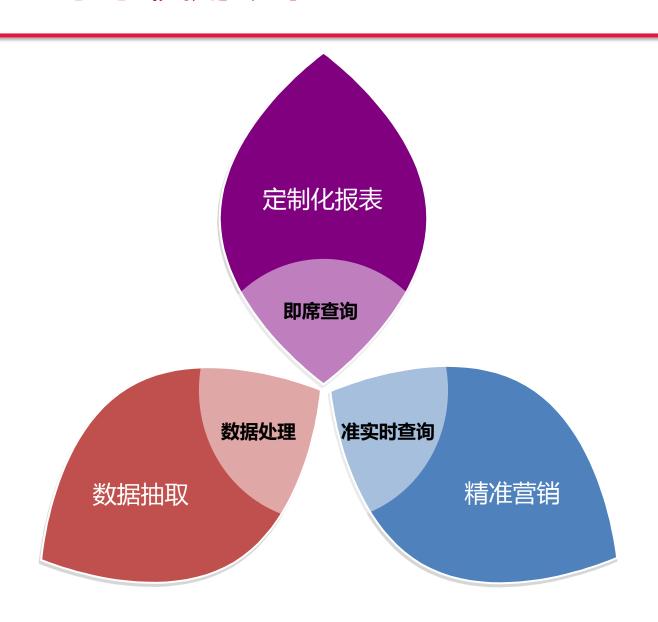


CREATE TABLE TABLE 1 (ID BIGINT, NAME VARCHAR)
PARTITIONED BY (PATITION_KEY VARCHAR)



CREATE TABLE TABLE1 PARTITION (FIRST_NAME, LAST_NAME)
AS SELECT EMP_NO,BIRTH_DATE,GENDER,HIRE_DATE,
FIRST_NAME,LAST_NAME FROM EMPLOYEES





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