Hive9 索引

创建索引

• 先简历一张表

• 对分区建立索引

```
CREATE INDEX employees_index

ON TABLE employees(country)

AS 'org.apache.hadoop.hive.ql.index.compact.CompactIndexHandler'

WITH DEFERED REBUILD

IDXPROPERTIES ('creator' = 'me', 'ceated_at' = 'some_time')

IN TABLE employees_index_table

PARTITIONED BY (country, name)

COMMENT 'Employees indexed by country and name.';
```

AS: 语句制定了索引处理器, 也就是实现了索引接口的JAVA类, Hive本身包含了一些典型的索引实现。

IN TABLE: 要求索引处理器在一张新表中保留索引数据。

Bitmap索引

bitmap索引普遍应用于排重后较少的列。

```
CREATE INDEX employees_index

ON TABLE employees(country)

AS 'BITMAP'

WITH DEFERRED REBUILD

IDXPROPERTIED('creator' = 'me', 'ceated_at' = 'some_time')

IN TABLE employees_index_table

PARTITIONED BY (country, name)

COMMENT 'Employees indexes by country and name.';
```

重建索引

如果用户指定了 DEFERRED REBUILD ,那么新索引将呈现空白状态,在任何时候,都可以进行第一次索引创建或者使用 ALTER INDEX对索引进行重建。

ALTER INDEX employees_index
ON TABLE employees
PARTITION (country = 'US')
REBUILD;

如果忽略掉PARTITION,那么将会对所有分区进行重建索引。

显示索引

SHOW FORMATTED INDEX ON employees;

关键字FORMATTED是可选的,增加这个关键字可以使输出中包含有列名称。用户还可以替换INDEX 为INDEXES。

删除索引

DROP INDEX IF EXISTS employees_index ON TABLE employees;