

2019

A low-angle, upward-looking shot of a modern glass skyscraper with a grid-like facade, set against a clear blue sky. The building's reflection is visible in the lower part of the frame.

企业级数据仓库实战

A stylized world map composed of small, light blue dots, centered on the Atlantic Ocean. The map is overlaid on a light blue background with a subtle gradient.



Hive DML操作介绍



```
LOAD DATA [LOCAL] INPATH 'filepath' [OVERWRITE] INTO TABLE tablename [PARTITION (partcol1=val1, partcol2=val2 ...)]  
LOAD DATA [LOCAL] INPATH 'filepath' [OVERWRITE] INTO TABLE tablename [PARTITION (partcol1=val1, partcol2=val2 ...)]  
[INPUTFORMAT 'inputformat' SERDE 'serde'] (3.0 or later)
```

例子:

```
create table score2  
(  
    name string  
    , score map<string,string>  
)  
PARTITIONED BY (pt STRING)  
ROW FORMAT DELIMITED  
FIELDS TERMINATED BY '|'   
COLLECTION ITEMS TERMINATED BY ','  
MAP KEYS TERMINATED BY ':';
```

```
LOAD DATA LOCAL INPATH '/Users/PycharmProjects/DW/File/score' OVERWRITE INTO TABLE score2 PARTITION (pt='20191111');
```



```
INSERT OVERWRITE TABLE tablename1 [PARTITION (partcol1=val1, partcol2=val2 ...) [IF NOT EXISTS]] select_statement1 FROM from_statement;  
INSERT INTO TABLE tablename1 [PARTITION (partcol1=val1, partcol2=val2 ...)] select_statement1 FROM from_statement;
```

例子：

```
INSERT OVERWRITE TABLE score2 PARTITION(pt='20191112')  
SELECT  
  22 AS ID  
  ,str_to_map('course:Math|score:100','\|',':') AS course;
```



```
FROM from_statement  
INSERT OVERWRITE TABLE tablename1 [PARTITION (partcol1=val1, partcol2=val2 ...) [IF NOT EXISTS]] select_statement1  
[INSERT OVERWRITE TABLE tablename2 [PARTITION ... [IF NOT EXISTS]] select_statement2]  
[INSERT INTO TABLE tablename2 [PARTITION ...] select_statement2] ...;  
FROM from_statement  
INSERT INTO TABLE tablename1 [PARTITION (partcol1=val1, partcol2=val2 ...)] select_statement1  
[INSERT INTO TABLE tablename2 [PARTITION ...] select_statement2]  
[INSERT OVERWRITE TABLE tablename2 [PARTITION ... [IF NOT EXISTS]] select_statement2] ...;
```

举例：

FROM score2

```
INSERT OVERWRITE TABLE score2 PARTITION(pt='20191113') SELECT name,score  
INSERT OVERWRITE TABLE score3 PARTITION(pt='20191113') SELECT name,score;
```




INSERT OVERWRITE TABLE tablename PARTITION (partcol1[=val1], partcol2[=val2] ...) select_statement FROM from_statement;
INSERT INTO TABLE tablename PARTITION (partcol1[=val1], partcol2[=val2] ...) select_statement FROM from_statement;

配置项	Default	Note
hive.error.on.empty.partition	FALSE	Whether to throw an exception if dynamic partition insert generates empty results
hive.exec.dynamic.partition	TRUE	Needs to be set to true to enable dynamic partition inserts
hive.exec.dynamic.partition.mode	strict	In strict mode, the user must specify at least one static partition in case the user accidentally overwrites all partitions, in nonstrict mode all partitions are allowed to be dynamic
hive.exec.max.created.files	100000	Maximum number of HDFS files created by all mappers/reducers in a MapReduce job
hive.exec.max.dynamic.partitions	1000	Maximum number of dynamic partitions allowed to be created in total
hive.exec.max.dynamic.partitions.pernode	100	Maximum number of dynamic partitions allowed to be created in each mapper/reducer node



举例：

```
set hive.exec.dynamic.partition = TRUE;  
set hive.exec.dynamic.partition.mode= nonstrict;
```

```
EXPLAIN
```

```
INSERT OVERWRITE TABLE score2 PARTITION(pt)
```

```
SELECT
```

```
    name
```

```
    ,score
```

```
    ,pt
```

```
FROM score3;
```

```
;
```





样例模板

— 设置队列和参数

```
SET mapreduce.job.queueName=root.default;
```

```
SET mapreduce.map.memory.mb=8191;
```

— 切换数据库

```
USE dw;
```

— 建表

```
CREATE TABLE IF NOT EXISTS score2(name string, score map<string,string>)PARTITIONED BY (pt STRING);
```

— 挂在分区

```
ALTER TABLE score2 DROP IF EXISTS PARTITION(pt='20191111');
```

```
ALTER TABLE score2 ADD IF NOT EXISTS PARTITION(pt='20191111');
```

— 申明函数

```
CREATE FUNCTION default.function_name AS class_name USING JAR 'file_name';
```

— 数据写入

```
INSERT OVERWRITE TABLE score2 PARTITION(pt='20191112')
```

```
SELECT
```

```
  22 AS ID
```

```
  ,str_to_map('course:Math|score:100','\\|',':') AS course;
```

— 删除临时表(如果有)

```
DROP TABLE IF EXISTS tmp_score2_xxx;
```

THANK YOU FOR YOUR GUIDANCE.

谢谢