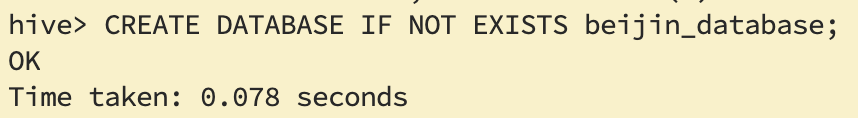
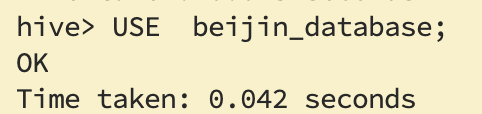
-- 创建数据库（如果不存在）

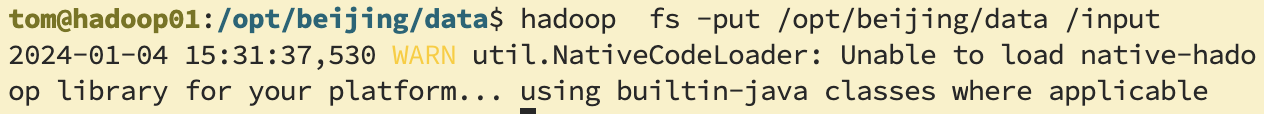
CREATE DATABASE IF NOT EXISTS your\_database;

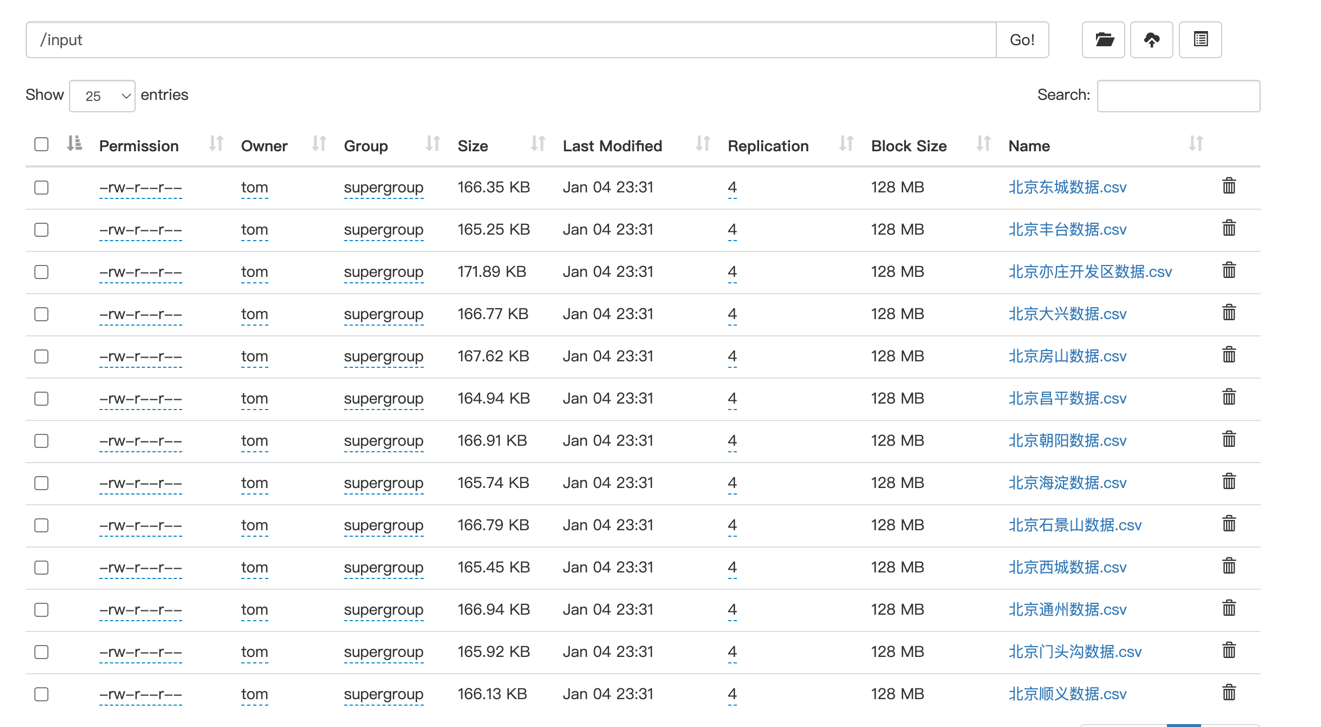
-- 切换到创建的数据库

USE your\_database;









CREATE TABLE IF NOT EXISTS beijin (

Layout STRING,

`Floor` STRING,

Area DOUBLE,

Decoration STRING,

Price INT,

Community STRING,

Region STRING,

Elevator STRING,

ListedTime STRING,

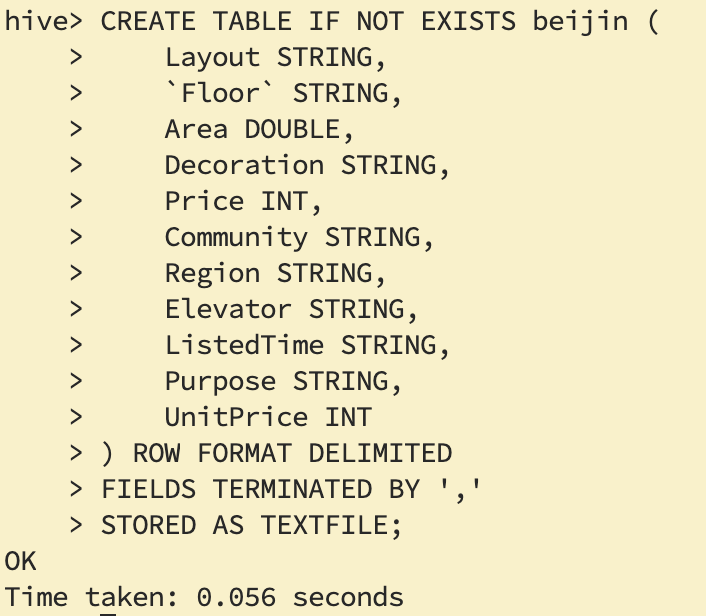
Purpose STRING,

UnitPrice INT

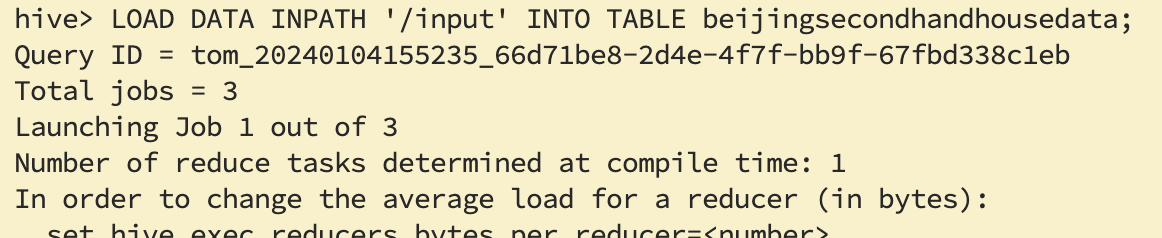
) ROW FORMAT DELIMITED

FIELDS TERMINATED BY ','

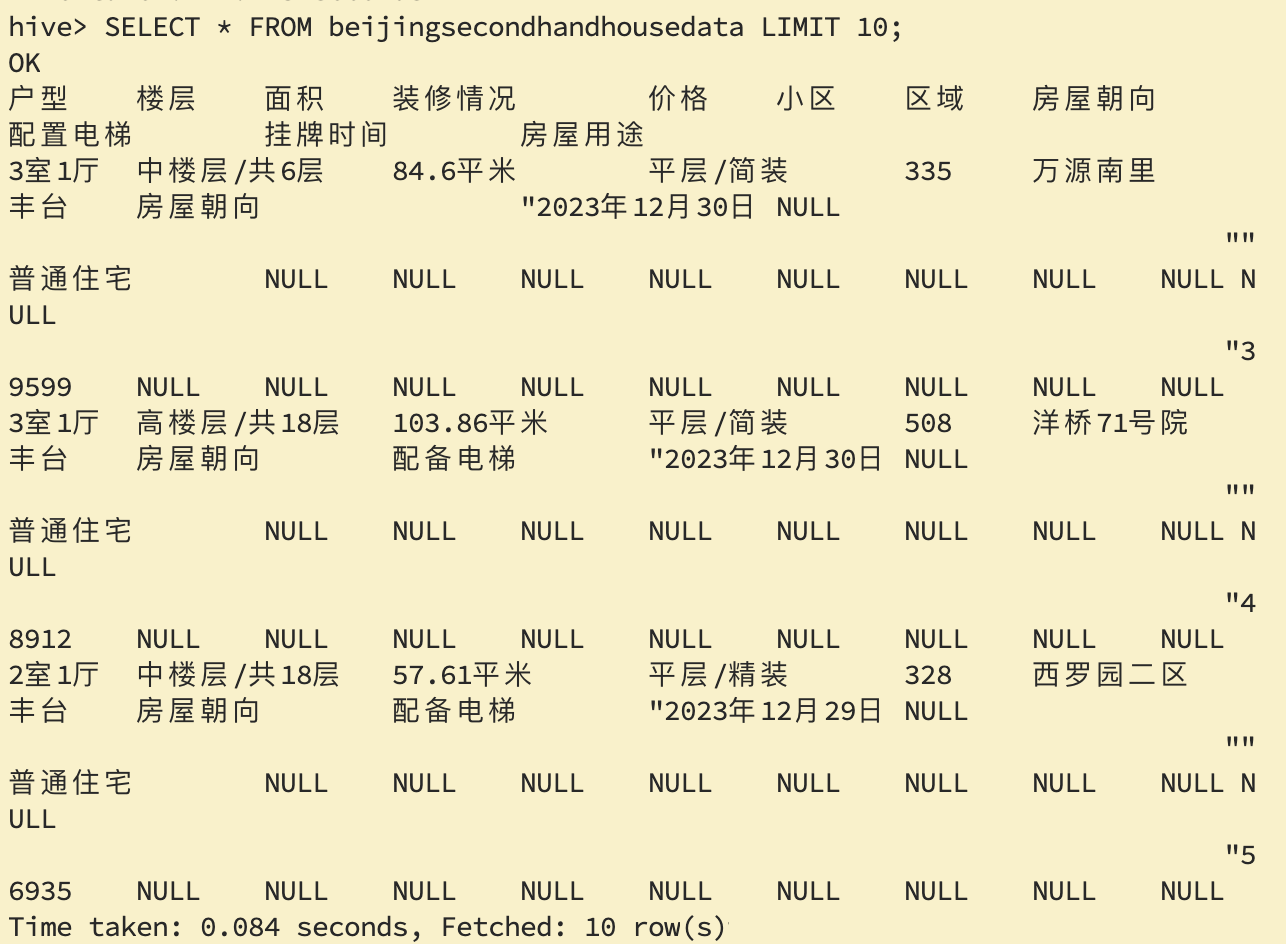
STORED AS TEXTFILE;



LOAD DATA LOCAL INPATH /opt/beijing/data.csv' INTO TABLE beijin;



SELECT \* FROM beijingsecondhandhousedata LIMIT 10;



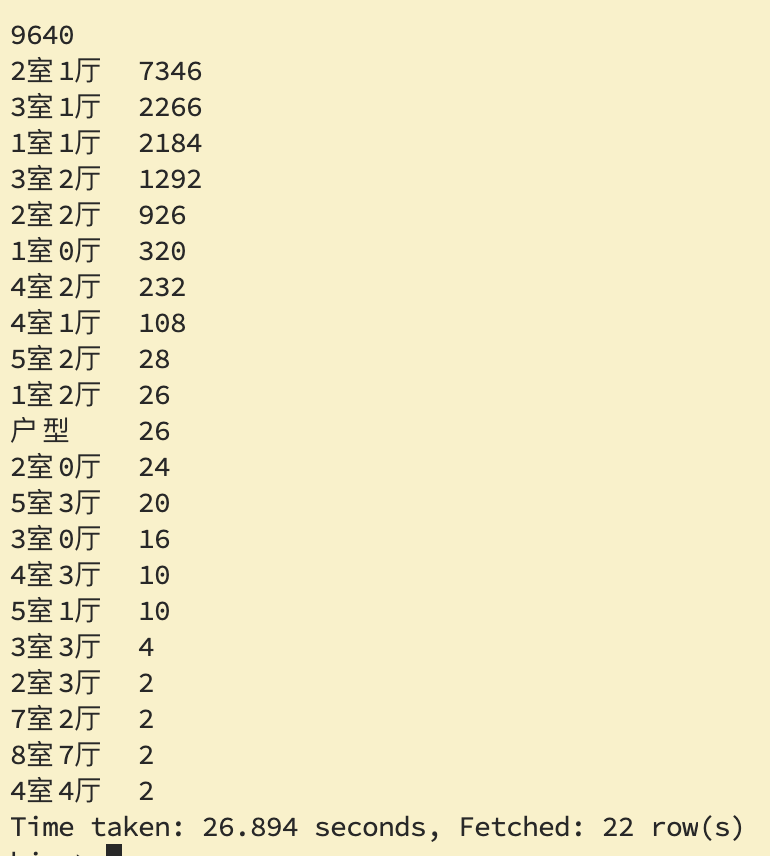
1.统计不同Layout 数量，并按大到小排序

SELECT Layout, COUNT(\*) AS LayoutCount

FROM BeijingSecondhandHouseData

GROUP BY Layout

ORDER BY LayoutCount DESC;



2.统计各区域的每平方米价格平均值

SELECT

Region,

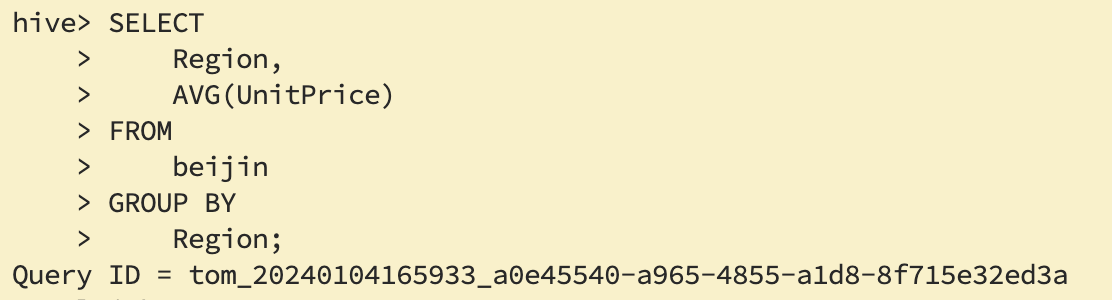
AVG(UnitPrice)

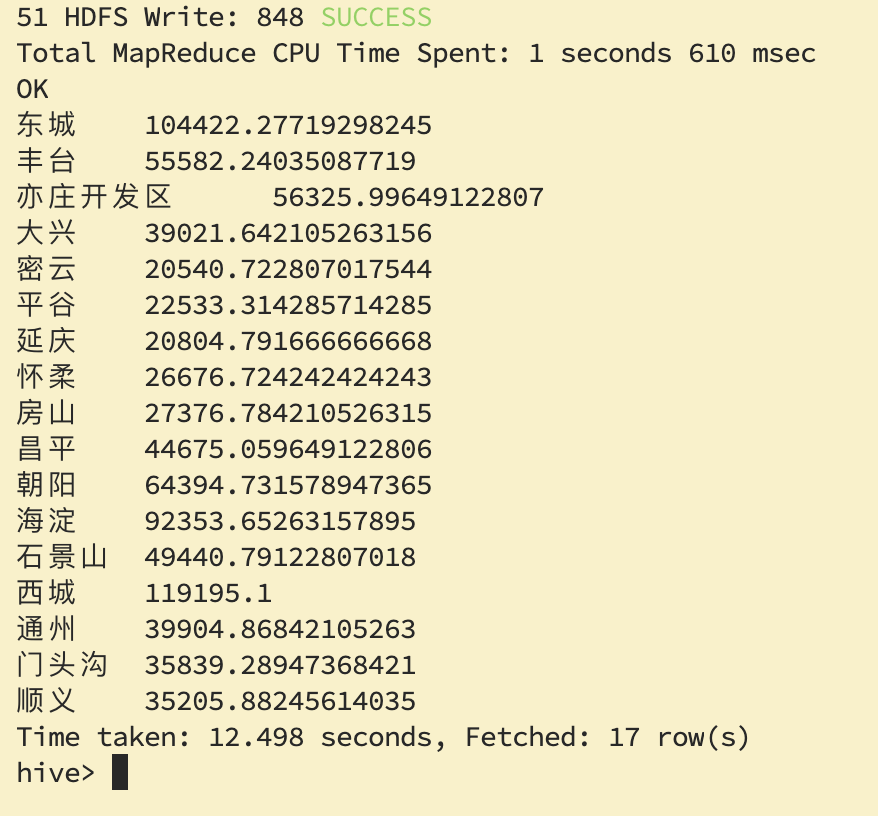
FROM

beijin

GROUP BY

Region;





3.查询各区域电梯比例

-- 创建临时表 RegionElevatorCountTemp

CREATE TABLE IF NOT EXISTS RegionElevatorCountTemp AS

SELECT

Region,

COUNT(\*) AS TotalCount,

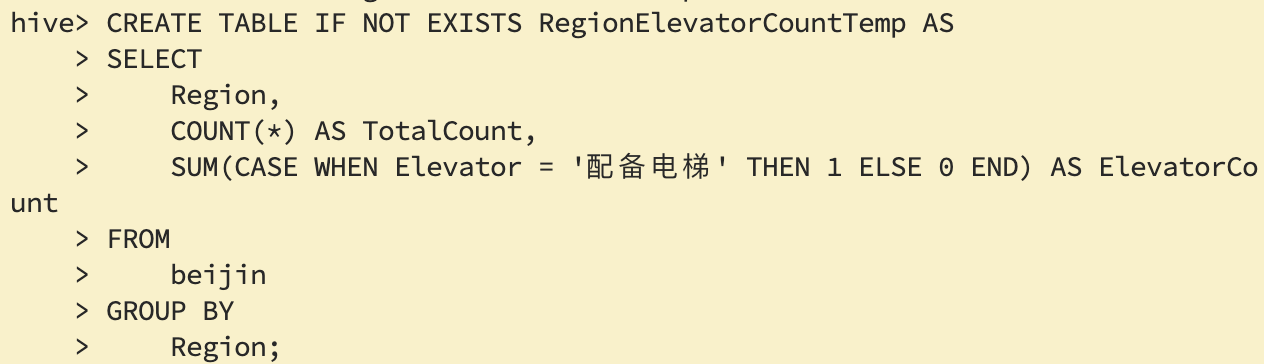
SUM(CASE WHEN Elevator = '配备电梯' THEN 1 ELSE 0 END) AS ElevatorCount

FROM

beijin

GROUP BY

Region;



-- 创建表 RegionElevatorCount

CREATE TABLE IF NOT EXISTS RegionElevatorCount AS

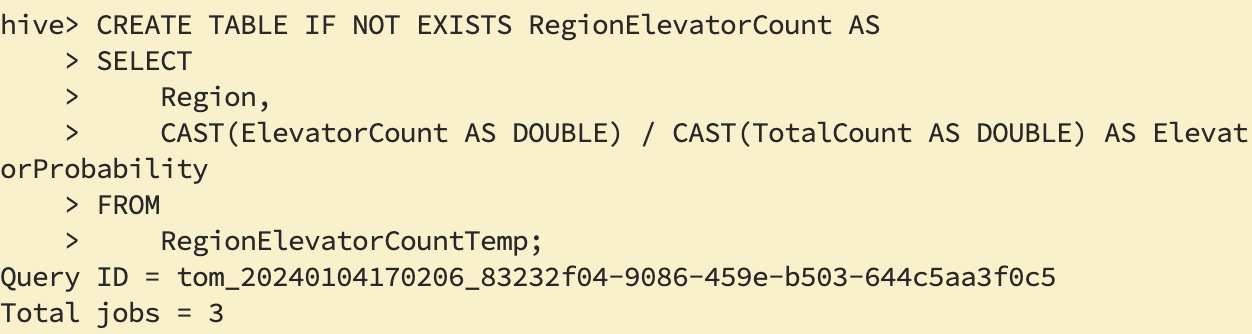
SELECT

Region,

CAST(ElevatorCount AS DOUBLE) / CAST(TotalCount AS DOUBLE) AS ElevatorProbability

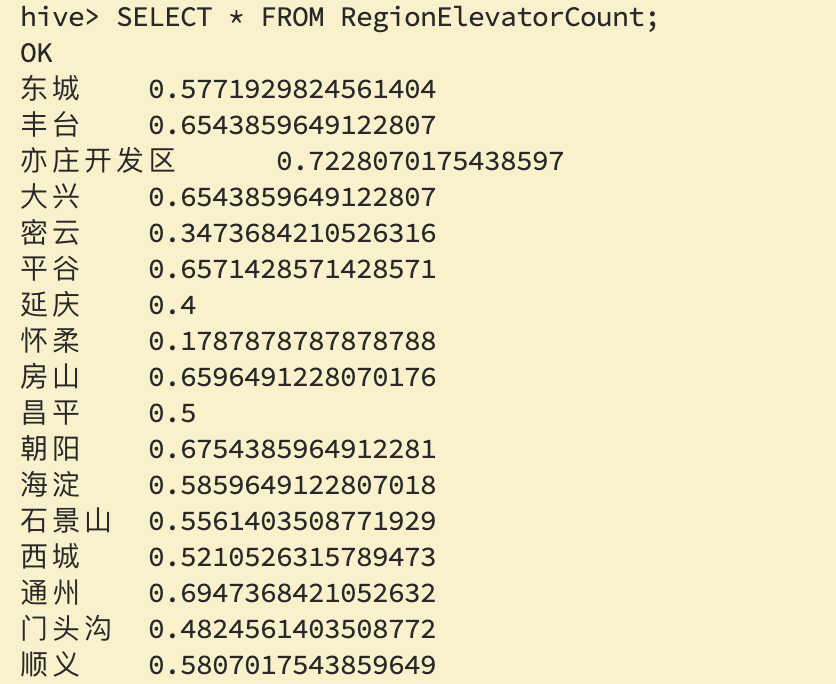
FROM

RegionElevatorCountTemp;



-- 查询结果

SELECT \* FROM RegionElevatorCount;



4.北京二手房价区间

SELECT

PriceRange,

COUNT(\*) AS PriceCount

FROM (

SELECT

CASE

WHEN Price BETWEEN 0 AND 200 THEN '0-200'

WHEN Price BETWEEN 201 AND 400 THEN '200-400'

WHEN Price BETWEEN 401 AND 600 THEN '400-600'

WHEN Price BETWEEN 601 AND 800 THEN '600-800'

ELSE '800以上'

END AS PriceRange

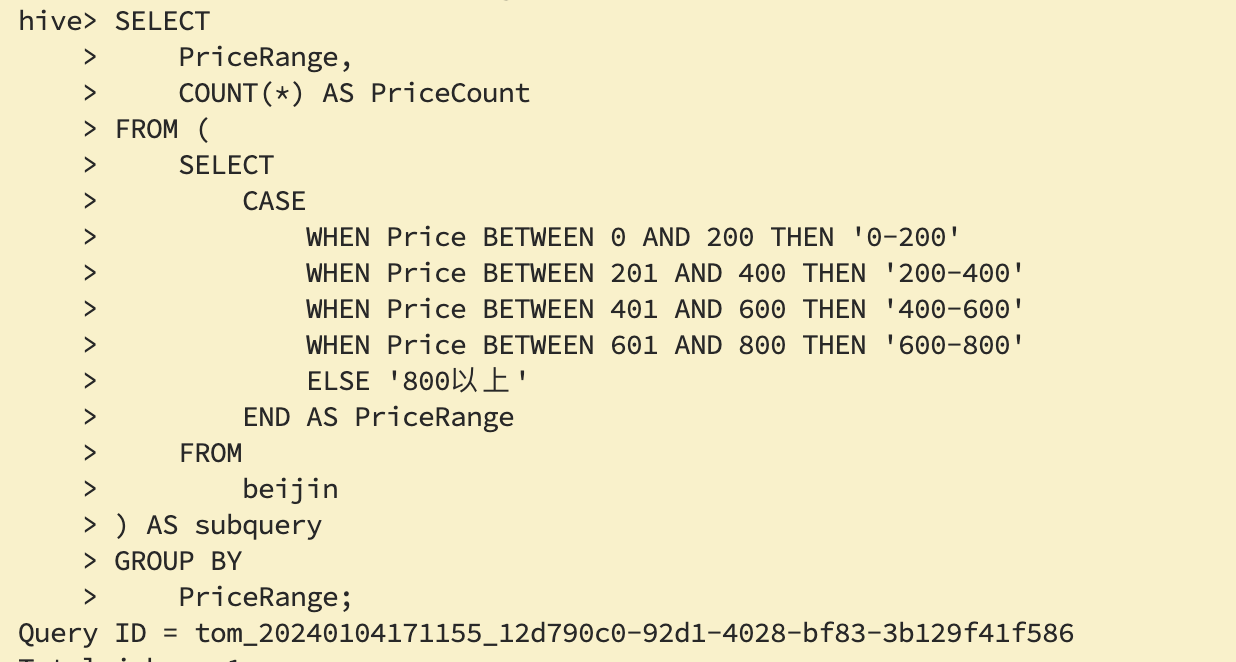
FROM

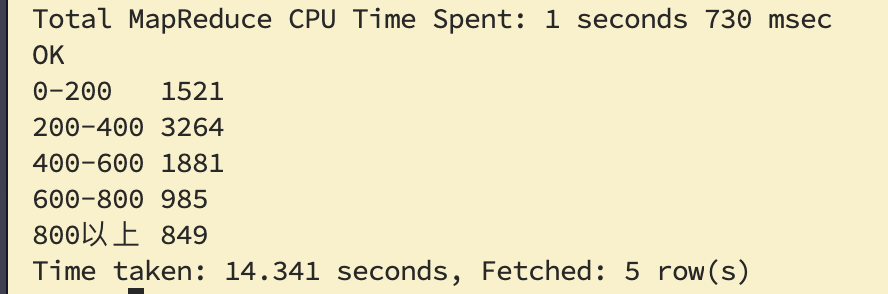
beijin

) AS subquery

GROUP BY

PriceRange;





5.统计 Decoration 列的各比例

SELECT Decoration, COUNT(1) AS Count, ROUND(COUNT(1) \* 100.0 / (SELECT COUNT(1) FROM beijin), 2) AS Percentage

FROM beijin

GROUP BY Decoration;

