

# 数据库第一次作业

米家龙 18342075

1. 找出满足以下要求的销售区域，显示销售区域的号码（ID）和名字：销售区域的销售税小于0.1，且对应供货仓库的销售税大于0.18。

```
WITH warehouse AS (  
    SELECT w_id  
    FROM bmsql_warehouse  
    WHERE w_tax > 0.18  
)  
SELECT d_id, d_name  
FROM bmsql_district, warehouse  
WHERE bmsql_district.d_w_id = warehouse.w_id  
    AND d_tax < 0.1;
```

2. 找出满足下面要求的仓库名字（不输出重复的名字）：有来自广东省（state为GD）且信用良好的顾客购买过该仓库的商品。

```
WITH customer AS(  
    SELECT c_w_id  
    FROM bmsql_customer  
    WHERE c_state = 'GD'  
        AND c_credit = 'GC'  
)  
SELECT distinct w_name  
FROM bmsql_warehouse, customer  
WHERE w_id = customer.c_w_id;
```

3. 找出享有九折优惠但信用不良的顾客，显示他们的姓名（包括中间名）。

```
SELECT c_first, c_middle, c_last  
FROM bmsql_customer  
WHERE c_credit = 'BC'  
    AND c_discount = 0.1;
```

4. 如果一种货物剩余的数量少于12，我们就认为该货物短缺。找出所有短缺的货物的名字，其所在仓库的名字，以及货物剩余的数量。

```
WITH stock AS(  
    SELECT s_w_id, s_i_id, s_quantity  
    FROM bmsql_stock  
    WHERE s_quantity < 12  
)  
SELECT i_name, w_name, s_quantity  
FROM bmsql_item, bmsql_warehouse, stock  
WHERE w_id = s_w_id  
    AND i_id = s_i_id  
ORDER BY i_id;
```

5. 找出给广东销售区域供货的仓库都来自哪个省和城市。

```
WITH dist AS (  
    SELECT d_w_id  
    FROM bmsql_district  
    WHERE d_state = 'GD'  
)  
SELECT w_state, w_city  
FROM bmsql_warehouse, dist  
WHERE w_id = d_w_id;
```