# 최과장 보고서

1. 전체 상품의 주문 완료 건 총 매출, 평균 매출,최고매출,최저매출을 출력하시오

```
SELECT COUNT(*) 전체주문건,
SUM(B.sales) 총매출,
AVG(B.sales) 평균매출,
MAX(B.sales) 최고매출,
MIN(B.sales) 최저매출
FROM reservation A, order_info B
WHERE A.reserv_no = B.reserv_no;
```

```
SELECT COUNT(*) 전체주문건,
SUM(B.sales) 총매출,
AVG(B.sales) 평균매출,
MAX(B.sales) 최고매출,
MIN(B.sales) 최저매출
FROM reservation A
INNER JOIN order_info B ON A.reserv_no = B.reserv_no;
```

2. 전체 상품의 총 판매량과 총 매출액,전용상품의 판매량과 매출액을 출력하시오

```
SELECT COUNT(*) 총판매량,
SUM(B.sales) 총매출,
SUM(DECODE(B.item_id,'M0001',1,0)) 전용상품판매랑,
SUM(DECODE(B.item_id,'M0001',B.sales,0)) 전용상품매출
FROM reservation A, order_info B
WHERE A.reserv_no = B.reserv_no
AND A.cancel = 'N';
```

```
SELECT COUNT(*) 총판매량,
SUM(B.sales) 총매출,
SUM(CASE WHEN B.item_id = 'M0001' THEN 1 ELSE 0 END) 전용상품판매량,
SUM(CASE WHEN B.item_id = 'M0001' THEN B.sales ELSE 0 END) 전용상품매출
FROM reservation A
INNER JOIN order_info B ON A.reserv_no = B.reserv_no
WHERE A.cancel = 'N';
```

3. 각 상품별 전체 매출액을 내림차순으로 출력하시오

```
SELECT C.item_id 상품아이디,
C.product_name 상품이름,
SUM(B.sales) 상품매출
FROM reservation A
INNER JOIN order_info B ON A.reserv_no = B.reserv_no
INNER JOIN item C ON B.item_id = C.item_id
WHERE A.cancel = 'N'
GROUP BY C.item_id, C.product_name
ORDER BY SUM(B.sales) DESC;
```

```
SELECT C.item_id 상품아이디,
C.product_name 상품이름,
SUM(B.sales) 상품매출
FROM reservation A
INNER JOIN order_info B ON A.reserv_no = B.reserv_no
INNER JOIN item C ON B.item_id = C.item_id
WHERE A.cancel = 'N'
```

```
GROUP BY C.item_id, C.product_name
ORDER BY SUM(B.sales) DESC;
```

#### 4. 모든 상품의 월별 매출액을 출력하시오

```
SELECT SUBSTR(A.reserv_date, 1, 6) 매출월,
SUM(DECODE(B.item_id, 'M0001', B.sales, 0)) SPECIAL_SET,
SUM(DECODE(B.item_id, 'M0002', B.sales, 0)) PASTA,
SUM(DECODE(B.item_id, 'M0003', B.sales, 0)) PIZZA,
SUM(DECODE(B.item_id, 'M0004', B.sales, 0)) SEA_FOOD,
SUM(DECODE(B.item_id,'M0005',B.sales,0)) STEAK,
SUM(DECODE(B.item_id,'M0006',B.sales,0)) SALAD_BAR,
SUM(DECODE(B.item_id,'M0007',B.sales,0)) SALAD,
SUM(DECODE(B.item_id, 'M0008', B.sales, 0)) SANDWICH,
SUM(DECODE(B.item_id,'M0009',B.sales,0)) WINE,
SUM(DECODE(B.item_id, 'M0010', B.sales, 0)) JUICE
FROM reservation A, order info B
WHERE A.reserv_no = B.reserv_no
AND A.cancel = 'N'
GROUP BY SUBSTR(A.reserv_date,1,6)
ORDER BY SUBSTR(A.reserv_date, 1, 6);
SELECT SUBSTR(A.reserv_date, 1, 6) 매출월,
```

```
SELECT SUBSTR(A.reserv_date, 1, 6) mbb and selected substrained su
```

## 5. 월별 총 매출액과 전용 상품 매출액을 출력하시오

```
SELECT SUBSTR(A.reserv_date,1,6) 매출월,
SUM(B.sales) 총매출,
SUM(DECODE(B.item_id,'M0001',B.sales,0)) 전용상품매출
FROM reservation A, order_info B
WHERE A.reserv_no = B.reserv_no
AND A.cancel = 'N'
GROUP BY SUBSTR(A.reserv_date,1,6)
ORDER BY SUBSTR(A.reserv_date,1,6);
```

```
SELECT SUBSTR(A.reserv_date, 1, 6) 매출월,
SUM(B.sales) 총매출,
SUM(CASE WHEN B.item_id = 'M0001' THEN B.sales ELSE 0 END) 전용상품매출
FROM reservation A
INNER JOIN order_info B ON A.reserv_no = B.reserv_no
WHERE A.cancel = 'N'
GROUP BY SUBSTR(A.reserv_date, 1, 6)
ORDER BY SUBSTR(A.reserv_date, 1, 6);
```

6. 월별 총 매출액과 전용 상품 매출액을 출력에 매출 기여율울 추가하고 기여율은 소수점 아래 두번째 자리에서 반올림 하여 출 력하시오

```
SELECT SUBSTR(A.reserv_date,1,6) 매출월,
SUM(b.sales)
- SUM(decode(b.item_id,'M0001',b.sales,0)) 전용상품외매출,
SUM(decode(b.item_id,'M0001',b.sales,0)) 전용상품매출,
```

```
ROUND(SUM(DECODE(B.item_id, 'M0001', B.sales, 0))/SUM(B.sales)*100,1) 매출기여율
FROM reservation A, order_info B
WHERE A.reserv_no = B.reserv_no
AND A.cancel = 'N'
GROUP BY SUBSTR(A.reserv_date, 1, 6)
ORDER BY SUBSTR(A.reserv_date, 1, 6);

SELECT SUBSTR(A.reserv_date, 1, 6) 매출월,
SUM(B.sales) - SUM(CASE WHEN B.item_id = 'M0001' THEN B.sales ELSE 0 END) 전용상품외매출,
SUM(CASE WHEN B.item_id = 'M0001' THEN B.sales ELSE 0 END) 전용상품의매출,
ROUND(SUM(CASE WHEN B.item_id = 'M0001' THEN B.sales ELSE 0 END) / SUM(B.sales) * 100, 1) 매출기여율
FROM reservation A
INNER JOIN order_info B ON A.reserv_no = B.reserv_no
WHERE A.cancel = 'N'
GROUP BY SUBSTR(A.reserv_date, 1, 6)
ORDER BY SUBSTR(A.reserv_date, 1, 6);
```

## 7. 6번에 총 예약건수, 예약 취소 건수를 추가하시오

```
SELECT SUBSTR(A.reserv_date,1,6) 매출월,
SUM(B.sales) 총매출,
SUM(B.sales)
- SUM(decode(B.item_id,'M0001',B.sales,0)) 전용상품외매출,
SUM(DECODE(B.item_id,'M0001',B.sales,0)) 전용상품매출,
ROUND(SUM(DECODE(B.item_id,'M0001',B.sales,0))/SUM(B.sales)*100,1) 매출기여율,
COUNT(A.reserv_no) 총예약건,
SUM(DECODE(A.cancel,'N',1,0)) 예약완료건,
SUM(DECODE(A.cancel,'Y',1,0)) 예약취소건
FROM reservation A, order_info B
WHERE A.reserv_no = B.reserv_no
-- AND A.cancel = 'N'
GROUP BY SUBSTR(A.reserv_date,1,6)
ORDER BY SUBSTR(A.reserv_date,1,6);
```

```
SELECT SUBSTR(A.reserv_date, 1, 6) 매출월, SUM(B.sales) 총매출, SUM(B.sales) 총매출, SUM(CASE WHEN B.item_id = 'M0001' THEN B.sales ELSE 0 END) 전용상품의매출, SUM(CASE WHEN B.item_id = 'M0001' THEN B.sales ELSE 0 END) 전용상품매출, ROUND(SUM(CASE WHEN B.item_id = 'M0001' THEN B.sales ELSE 0 END) / SUM(B.sales) * 100, 1) 매출기여율, COUNT(A.reserv_no) 총예약건, SUM(CASE WHEN A.cancel = 'N' THEN 1 ELSE 0 END) 예약완료건, SUM(CASE WHEN A.cancel = 'Y' THEN 1 ELSE 0 END) 예약취소건 FROM reservation A INNER JOIN order_info B ON A.reserv_no = B.reserv_no GROUP BY SUBSTR(A.reserv_date, 1, 6) ORDER BY SUBSTR(A.reserv_date, 1, 6);
```

8. 7번에 총 매출 대비 전용 상품의 판매율, 총 예약건 대비 예약 취소율을 추가 소숫점이 나오면 두번째 자리에서 반올림하여 00.0%형식으로 출력하시오

```
SELECT SUBSTR(A.reserv_date,1,6) 매출월,
SUM(B.sales) 총매출,
SUM(B.sales)
- SUM(DECODE(B.item_id,'M0001',B.sales,0)) 전용상품외매출,
SUM(DECODE(B.item_id,'M0001',B.sales,0)) 전용상품매출,
ROUND(SUM(DECODE(B.item_id,'M0001',B.sales,0))/SUM(B.sales)*100,1)||'%' 전용상품판매율,
COUNT(A.reserv_no) 총예약건,
SUM(DECODE(A.cancel,'N',1,0)) 예약환료건,
SUM(DECODE(A.cancel,'Y',1,0)) 예약취소건,
ROUND(SUM(DECODE(A.cancel,'Y',1,0))/COUNT(A.reserv_no)*100,1)||'%' 예약취소율
FROM reservation A, order_info B
WHERE A.reserv_no = B.reserv_no(+)
-- AND A.cancel = 'N'
GROUP BY SUBSTR(A.reserv_date,1,6)
ORDER BY SUBSTR(A.reserv_date,1,6);
```

```
SELECT SUBSTR(A.reserv_date, 1, 6) 매출월,
SUM(B.sales) 총매출,
SUM(B.sales) - SUM(CASE WHEN B.item_id = 'M0001' THEN B.sales ELSE 0 END) 전용상품외매출,
SUM(CASE WHEN B.item_id = 'M0001' THEN B.sales ELSE 0 END) 전용상품매출,
CONCAT(ROUND(SUM(CASE WHEN B.item_id = 'M0001' THEN B.sales ELSE 0 END) / SUM(B.sales) * 100, 1), '%') 전용상품판매율,
COUNT(A.reserv_no) 총예약건,
SUM(CASE WHEN A.cancel = 'N' THEN 1 ELSE 0 END) 예약환료건,
SUM(CASE WHEN A.cancel = 'Y' THEN 1 ELSE 0 END) 예약취소건,
CONCAT(ROUND(SUM(CASE WHEN A.cancel = 'Y' THEN 1 ELSE 0 END) / COUNT(A.reserv_no) * 100, 1), '%') 예약취소율
FROM reservation A
LEFT JOIN order_info B ON A.reserv_no = B.reserv_no
GROUP BY SUBSTR(A.reserv_date, 1, 6)
ORDER BY SUBSTR(A.reserv_date, 1, 6);
```

#### 9. ??

10. 월별 전용 상품 매출 1위부터 3위까지 지점이 어딘지 확인하시오

```
SELECT *
FROM
SELECT SUBSTR(A.reserv_date,1,6) 매출월,
A.branch
                       지점,
SUM(B. sales)
                        전용상품매축
RANK() OVER(PARTITION BY SUBSTR(A.reserv_date, 1, 6)
ORDER BY SUM(B.sales) DESC) 지점순위
FROM reservation A, order_info B
WHERE A.reserv_no = B.reserv_no
AND A.cancel = 'N'
AND B.item id = 'M0001'
GROUP BY SUBSTR(A.reserv_date, 1, 6), A.branch
ORDER BY SUBSTR(A.reserv_date,1,6)
WHERE A.지점순위 <= 3;
```

```
SELECT *
FROM
SELECT
SUBSTR(A.reserv_date, 1, 6) 매출월,
A.branch 지점,
SUM(B.sales) 전용상품매출,
RANK() OVER (PARTITION BY SUBSTR(A.reserv_date, 1, 6) ORDER BY SUM(B.sales) DESC) 지점순위
FROM
reservation A
INNER JOIN
order_info B ON A.reserv_no = B.reserv_no
A.cancel = 'N'
AND B.item_id = 'M0001'
GROUP BY
SUBSTR(A.reserv_date, 1, 6), A.branch
ORDER BY
SUBSTR(A.reserv_date, 1, 6)
) AS A
WHERE
A.지점순위 <= 3;
```

11. 분석8의 결과와 분석10의 결과항목을 월별로 합쳐서 리포트로 작성하시오

```
SELECT A.매출월
                       매출월,
                총매출,
MAX(총매출)
             .
전용상품외매출,
MAX(전용상품외매출)
MAX(전용상품매출)
                전용상품매출,
MAX(전용상품판매율)
               전용상품판매율,
MAX(총예약건)
                총예약건,
MAX(예약완료건)
                예약완료건,
MAX(예약취소건)
                예약취소건,
MAX(예약취소율)
                예약취소율,
```

```
MAX(최대매출지점)
                 최대매출지점,
MAX(지점매출액)
                    지점매출액
FROM
SELECT SUBSTR(A.reserv_date,1,6) 매출월,
SUM(B.sales) 총매출,
SUM(B.sales)
- SUM(DECODE(B.item_id, 'M0001', B.sales, 0)) 전용상품외매출,
SUM(DECODE(B.item_id, 'M0001', B.sales, 0)) 전용상품매출,
ROUND(SUM(DECODE(B.item_id, 'M0001', B.sales, 0))/SUM(B.sales)*100,1)||'%' 전용상품판매율,
COUNT(A.reserv_no) 총예약건,
SUM(DECODE(A.cancel,'N',1,0)) 예약완료건,
SUM(DECODE(A.cancel, 'Y', 1, 0)) 예약취소건,
ROUND(SUM(DECODE(A.cancel,'Y',1,0))/COUNT(A.reserv_no)*100,1)||'%' 예약취소율,
'' 최대매출지점,
0 지점매출액
FROM reservation A, order_info B
WHERE A.reserv_no = B.reserv_no(+)
-- AND A.cancel = 'N'
GROUP BY SUBSTR(A.reserv_date,1,6), '', 0
UNION
SELECT A.매출월,
0
          총매출,
          전용상품외매출,
0
          전용상포매축.
0
          전용상품판매율.
0
          총예약건,
0
          예약완료건.
          예약취소건,
          예약취소율,
A.지점
          최대매출지점,
A.전용상품매출 지점매출액
FROM
SELECT SUBSTR(A.reserv_date, 1, 6) 매출월,
             지점,
A.branch
SUM(B.sales)
                        전용상품매출,
ROW_NUMBER() OVER(PARTITION BY SUBSTR(A.reserv_date,1,6)
ORDER BY SUM(B.sales) DESC) 지점순위,
DECODE(A.branch,'강남','A','종로','A','영등포','A','B') 지점등급
FROM reservation A, order_info B
WHERE A.reserv_no = B.reserv_no
AND A.cancel = 'N'
AND B.item_id = 'M0001'
GROUP BY SUBSTR(A.reserv_date, 1, 6), A.branch,
DECODE(A.branch, '강남', 'A', '종로', 'A', '영등포', 'A', 'B')
ORDER BY SUBSTR(A.reserv_date, 1, 6)
WHERE A.지점순위 = 1
-- AND 지점등급 = 'A'
) A
GROUP BY A.매출월
ORDER BY A.매출월;
```

```
SELECT A.매출월 매출월,
      MAX(총매출) 총매출,
      MAX(전용상품외매출) 잔용상품외매출,
      MAX(전용상품매출) 전용상품매출,
      MAX(전용상품판매율) 전용상품판매율,
      MAX(총예약건) 총예약건,
      MAX(예약완료건) 예약완료건,
      MAX(예약취소건) 예약취소건,
      MAX(예약취소율) 예약취소율,
      MAX(최대매출지점) 최대매출지점,
      MAX(지점매출액) 지점매출액
FROM
   SELECT SUBSTR(A.reserv_date, 1, 6) 매출월,
         SUM(B.sales) 총매출,
         SUM(B.sales) - SUM(CASE WHEN B.item_id = 'M0001' THEN B.sales ELSE 0 END) 전용상품외매출,
          SUM(CASE WHEN B.item_id = 'M0001' THEN B.sales ELSE 0 END) 전용상품매출,
         CONCAT(ROUND(SUM(CASE WHEN B.item_id = 'M0001' THEN B.sales ELSE 0 END) / SUM(B.sales) * 100, 1), '%') 전용상품판매율,
          COUNT(A.reserv_no) 총예약건,
         SUM(CASE WHEN A.cancel = 'N' THEN 1 ELSE 0 END) 예약완료건,
          SUM(CASE WHEN A.cancel = 'Y' THEN 1 ELSE 0 END) 예약취소건,
          CONCAT(ROUND(SUM(CASE WHEN A.cancel = 'Y' THEN 1 ELSE 0 END) / COUNT(A.reserv_no) * 100, 1), '%') 예약취소율,
```

```
'' 최대매출지점,
          0 지점매출액
   FROM reservation A
   LEFT JOIN order_info B ON A.reserv_no = B.reserv_no
   WHERE A.cancel = 'N'
   GROUP BY SUBSTR(A.reserv_date, 1, 6)
   UNION
   SELECT A.매출월,
          0 총매출,
          0 전용상품외매출,
          0 전용상품매출,
          '' 전용상품판매율,
          0 총예약건,
          0 예약완료건
          0 예약취소건,
          '' 예약취소율,
          A.지점 최대매출지점,
          A.전용상품매출 지점매출액
   FROM
       SELECT SUBSTR(A.reserv_date, 1, 6) 매출월,
              A.branch 지점,
              SUM(B.sales) 전용상품매출,
              ROW_NUMBER() OVER (PARTITION BY SUBSTR(A.reserv_date, 1, 6) ORDER BY SUM(B.sales) DESC) 지점순위,
                 WHEN A.branch IN ('강남', '종로', '영등포') THEN 'A'
                 ELSE 'B'
              END 지점등급
       FROM reservation A
       JOIN order_info B ON A.reserv_no = B.reserv_no
       WHERE A.cancel = 'N' AND B.item id = 'M0001'
       GROUP BY SUBSTR(A.reserv_date, 1, 6), A.branch,
               CASE
                   WHEN A.branch IN ('강남', '종로', '영등포') THEN 'A'
               END
       ORDER BY SUBSTR(A.reserv_date, 1, 6)
   ) A
   WHERE A.지점순위 = 1
) A
GROUP BY A.매출월
ORDER BY A.매출월;
```

12. 고객의 수 ,남녀숫자,평균나이,평균거래기간을 출력하시오

```
SELECT COUNT(customer_id) 고객수,
SUM(DECODE(sex_code,'M',1,0)) 남자,
SUM(DECODE(sex_code,'F',1,0)) 여자,
ROUND(AVG(MONTHS_BETWEEN(TO_DATE('20171231','YYYYYMMDD'),TO_DATE(birth,'YYYYYMMDD'))/12),1) 평균나이,
ROUND(AVG(MONTHS_BETWEEN(TO_DATE('20171231','YYYYYMMDD'),first_reg_date)),1) 평균거래기간
FROM customer;

SELECT
COUNT(customer_id) 고객수,
SUM(CASE WHEN sex_code = 'M' THEN 1 ELSE 0 END) 남자,
SUM(CASE WHEN sex_code = 'F' THEN 1 ELSE 0 END) 여자,
ROUND(AVG(DATEDIFF('2017-12-31', STR_TO_DATE(birth, '%Y%m%d')) / 365.25), 1) 평균나이,
ROUND(AVG(DATEDIFF('2017-12-31', first_reg_date), 1)) 평균거래기간
FROM customer;
```

13. 개인별 전체 상품 주문 건수, 총 매출,전용상품주문건수,전용상품매출을 출력하여 전용상품의 매출 기준으로 내림차순 정렬 하시오

```
SELECT A.customer_id 고객아이디,
A.customer_name 고객이름,
COUNT(C.order_no) 전체상품주문건수,
SUM(C.sales) 총매출,
SUM(DECODE(C.item_id,'M0001',1,0)) 전용상품주문건수,
SUM(DECODE(C.item_id,'M0001',C.sales,0)) 전용상품매출
FROM customer A, reservation B, order_info C
WHERE A.customer_id = B.customer_id
```

```
AND B.reserv_no = C.reserv_no
AND B.cancel = 'N'
GROUP BY A.customer_id, A.customer_name
ORDER BY SUM(DECODE(C.item_id,'M0001',C.sales,0)) DESC;
```

```
SELECT
A.customer_id 고객아이디,
A.customer_name 고객이름,
COUNT(C.order_no) 전체상품주문건수,
SUM(C.sales) 총매출,
SUM(CASE WHEN C.item_id = 'M0001' THEN 1 ELSE 0 END) 전용상품주문건수,
SUM(CASE WHEN C.item_id = 'M0001' THEN C.sales ELSE 0 END) 전용상품매출
FROM
CUSTOMER A
JOIN
order_info C ON B.reserv_no = C.reserv_no
WHERE
B.cancel = 'N'
GROUP BY
A.customer_id, A.customer_name
ORDER BY
SUM(CASE WHEN C.item_id = 'M0001' THEN C.sales ELSE 0 END) DESC;
```

14. 상품을 구매한 전체 고객의 거주지와 전용상품을 구매한 고객의 거주지를 각각 비교해보고 상품을 구매한 전체 고객의 직업 과 전용 상품을 구매한 고객의 직업을 각각 비교하시오

```
SELECT B.address_detail 주소, B.zip_code, COUNT(B.address_detail) 카운팅
FROM (
SELECT DISTINCT A.customer_id, A.zip_code
FROM customer A, reservation B, order_info C
WHERE A.customer_id = B.customer_id
AND B.reserv_no = C.reserv_no
AND B.cancel = 'N'
-- AND C.item_id = 'M0001'
) A, address B
WHERE A.zip_code = B.zip_code
GROUP BY B.address_detail, B.zip_code
ORDER BY COUNT(B.address_detail) DESC;
```

```
SELECT NVL(B.job,'정보없음') 직업, COUNT(NVL(B.job,1)) 카운팅
FROM (
SELECT DISTINCT A.customer_id, A.zip_code
FROM customer A, reservation B, order_info C
WHERE A.customer_id = B.customer_id
AND B.reserv_no = C.reserv_no
AND B.cancel = 'N'
-- AND C.item_id = 'M0001'
) A, customer B
WHERE A.customer_id = B.customer_id
GROUP BY NVL(B.job,'정보없음')
ORDER BY COUNT(NVL(B.job,1)) DESC;
```

```
SELECT
B.address_detail 주소,
B.zip_code,
COUNT(B.address_detail) 카운팅
FROM (
SELECT DISTINCT A.customer_id, A.zip_code
FROM customer A
JOIN reservation B ON A.customer_id = B.customer_id
JOIN order_info C ON B.reserv_no = C.reserv_no
WHERE B.cancel = 'N'
-- AND C.item_id = 'M0001'
) A
JOIN address B ON A.zip_code = B.zip_code
```

```
GROUP BY B.address_detail, B.zip_code
ORDER BY 카운팅 DESC;
```

```
SELECT
COALESCE(B.job, '정보없음') 직업,
COUNT(COALESCE(B.job, 1)) 카운팅
FROM (
SELECT DISTINCT A.customer_id, A.zip_code
FROM customer A
JOIN reservation B ON A.customer_id = B.customer_id
JOIN order_info C ON B.reserv_no = C.reserv_no
WHERE B.cancel = 'N'
-- AND C.item_id = 'M0001'
) A
JOIN customer B ON A.customer_id = B.customer_id
GROUP BY COALESCE(B.job, '정보없음')
ORDER BY 카운팅 DESC;
```

### 15. 전용 상품 매출 기준 상위 10위 고객을 확인하시오

```
SELECT B.address_detail 주소, B.zip_code, COUNT(B.address_detail) 카운팅
FROM (
SELECT DISTINCT A.customer_id, A.zip_code
FROM customer A, reservation B, order_info C
WHERE A.customer_id = B.customer_id
AND B.reserv_no = C.reserv_no
AND B.cancel = 'N'
-- AND C.item_id = 'M0001'
) A, address B
WHERE A.zip_code = B.zip_code
GROUP BY B.address_detail, B.zip_code
ORDER BY COUNT(B.address_detail) DESC;
```

```
SELECT
B.address_detail 주소,
B.zip_code,
COUNT(B.address_detail) 카운팅
FROM (
SELECT DISTINCT A.customer_id, A.zip_code
FROM customer A
JOIN reservation B ON A.customer_id = B.customer_id
JOIN order_info C ON B.reserv_no = C.reserv_no
WHERE B.cancel = 'N'
-- AND C.item_id = 'M0001'
) A
JOIN address B ON A.zip_code = B.zip_code
GROUP BY B.address_detail, B.zip_code
ORDER BY 카운팅 DESC;
```

# 16. 전용 상품 매출 상위 10위 이상 고객이 두번째로 선호하는 상품 확인하시오

```
SELECT *
FROM (
SELECT A.고객아이디,
A.고객이름,
D.product name 상품명,
SUM(C.sales) 상품매출,
RANK() OVER(PARTITION BY A.고객아이디 ORDER BY SUM(C.sales) DESC) 선호도순위
FROM
SELECT A.customer_id
                        고객아이디,
A.customer_name 고객이름,
SUM(C.sales) 전용상품_매출
FROM customer A, reservation B, order_info C
WHERE A.customer_id = B.customer_id
AND B.reserv_no = C.reserv_no
AND B.cancel = 'N'
GROUP BY A.customer_id, A.customer_name
```

```
HAVING SUM(C.sales) > = 216000) A, reservation B, order_info C, item D
WHERE A.고객아이디 = B.customer_id
AND B.reserv_no = C.reserv_no
AND C.item_id = D.item_id
AND D.item_id <> 'M0001'
AND B.cancel = 'N'
GROUP BY A.고객아이디, A.고객이름, D.product_name
) A
WHERE A.선호도순위 = 1;
```

```
SELECT *
FROM (
SELECT A.고객아이디,
A.고객이름,
D.product_name 상품명,
SUM(C.sales) 상품매출,
RANK() OVER (PARTITION BY A.고객아이디 ORDER BY SUM(C.sales) DESC) 선호도순위
FROM (
SELECT A.customer_id 고객아이디,
A.customer_name 고객이름,
SUM(C.sales) 전용상품_매출
FROM customer A
JOIN reservation B ON A.customer_id = B.customer_id
JOIN order_info C ON B.reserv_no = C.reserv_no
WHERE B.cancel = 'N'
AND C.item_id = 'M0001'
GROUP BY A.customer_id, A.customer_name
HAVING SUM(C.sales) >= 216000
) A
JOIN reservation B ON A.고객아이디 = B.customer_id
JOIN order_info C ON B.reserv_no = C.reserv_no
JOIN item D ON C.item_id = D.item_id
WHERE D.item_id <> 'M0001'
AND B.cancel = 'N'
GROUP BY A.고객아이디, A.고객이름, D.product_name
) A
WHERE A.선호도순위 = 1;
```