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Funnels with Warby Parker

1. Quiz Funnel- What columns does the table have?

```
SELECT *  
FROM survey  
LIMIT 10;
```

2. Quiz Funnel- Number of responses for each question

```
SELECT question,  
       COUNT(DISTINCT user_id) AS 'No of Users'  
FROM survey  
GROUP BY question;
```

4. Purchase Funnel- What are the column names for each table?

```
SELECT *  
FROM quiz  
LIMIT 5;
```

```
SELECT *  
FROM home_try_on  
LIMIT 5;
```

```
SELECT *  
FROM purchase  
LIMIT 5;
```

5. Purchase Funnel- Use a LEFT JOIN to combine the three tables, starting with the top of the funnel (browse) and ending with the bottom of the funnel (purchase)

```
SELECT Distinct q.user_id,  
             hto.user_id IS NOT NULL as 'is_home_try_on',  
             hto.number_of_pairs,  
             p.user_id IS NOT NULL as 'is_purchase'  
FROM quiz AS q  
LEFT JOIN home_try_on AS hto  
      ON q.user_id = hto.user_id  
LEFT JOIN purchase AS p  
      ON hto.user_id = p.user_id  
LIMIT 10;
```

6.1 Further Analysis (Actionable Insights) Overall conversion rates by aggregating across all rows.

```
WITH PFunnel As
    (SELECT Distinct q.user_id,
        hto.user_id IS NOT NULL as 'is_home_try_on',
        hto.number_of_pairs,
        p.user_id IS NOT NULL as 'is_purchase'
    FROM quiz AS q
    LEFT JOIN home_try_on AS hto
        ON q.user_id = hto.user_id
    LEFT JOIN purchase AS p
        ON hto.user_id = p.user_id)
SELECT
    count(user_id) as 'Total Users',
    sum(is_home_try_on) as 'Home Try On Total',
    sum(is_purchase) as 'Purchase Total',
    1.0 * SUM(is_home_try_on) / COUNT(user_id) as '% of Users with Home
Try On',
    1.0 * SUM(is_purchase) / SUM(is_home_try_on) as '% of Home Try on
that Purchased'
from PFunnel;
```

6.2 Compare conversion rates from quiz→home_try_on and home_try_on→purchase

```
WITH PFunnel As
    (SELECT Distinct q.user_id,
        hto.user_id IS NOT NULL as 'is_home_try_on',
        hto.number_of_pairs,
        p.user_id IS NOT NULL as 'is_purchase'
    FROM quiz AS q
    LEFT JOIN home_try_on AS hto
        ON q.user_id = hto.user_id
    LEFT JOIN purchase AS p
        ON hto.user_id = p.user_id)
SELECT
    number_of_pairs,
    count(user_id) as 'Total Users',
    sum(is_home_try_on) as 'Home Try On Total',
    sum(is_purchase) as 'Purchase Total',
```

```

1.0 * SUM(is_purchase) / SUM(is_home_try_on) as '% of Home Try on
that Purchased'
FROM PFunnel
GROUP BY number_of_pairs;

```

6.3 Style quiz responses

```

SELECT style,
       fit,
       shape,
       color,
       count (*)
FROM quiz
GROUP BY style, fit, shape,color
ORDER BY 5 desc;

```

6.3 Total number of purchases and sales total

```

--Gives the total number of purchases and sale totals for each product id
SELECT product_id,
       model_name,
       style,
       color,
       count(*) AS 'Number of Purchases',
       SUM (price) AS 'Total Sales',
       price
FROM purchase
GROUP BY 1,2,3,4
ORDER BY 5 desc;

```

6.4 Purchases and sales by style, men and women

```

SELECT style,
       count(*) AS 'Number of Purchases',
       SUM (price) AS 'Total Sales',
       SUM (price) / count(*) AS 'Average Price'
FROM purchase
GROUP BY 1
ORDER BY 3 desc;

```

6.4 Count of style (men, women, not sure) from quiz

```

SELECT style,
       count (*) AS count
FROM quiz

```

```
GROUP BY style
ORDER BY 2 desc;
```


