https://public.tableau.com/views/Metrocar2_16999279649930/Duplicateofpercentoftop?:language=en-GB&:display count=n&:origin=viz share link

https://www.loom.com/share/7bd16cf4486a4d0b9fc87bd8db857a64?sid=53e9336e-01f9-4982-bbab-9db3d40f8720

SQL Extraction Code

I analysed the customer journey and behaviour data across Metrocar's ride-sharing service funnel using an SQL query. Downloads, Sign-Ups, Ride Requests, Rides Accepted, Rides Completed, Payments, and Reviews are just a few of the important performance metrics that our query gets data from. The percentage of the top and the percentage of the prior This query forms the basis for a thorough funnel analysis to identify bottlenecks, possibilities for development, and insights on user behaviour separated by platform and age group.

Funnel Data 1 (User Funnel)

```
with Funnel AS(
 SELECT
                   --download stage
 0 AS funnel stage,
 'Download' AS funnel_name,
 platform,
 s.age range,
 date(a.download ts) AS download dt,
 --t.transaction_ts::TIME as transaction_time,
 COUNT(DISTINCT app_download_key) as user_count
 --count(r.ride id)as ride count
 FROM app downloads a
 LEFT JOIN signups s ON a.app download key = s.session id
 LEFT JOIN ride_requests r ON s.user_id = r.user_id
 LEFT JOIN transactions t ON r.ride_id = t.ride_id
 --where r.request ts is null
 GROUP BY funnel stage, funnel name, platform, s.age range, download dt--,
transaction time
 UNION ALL
 SELECT
                    --sign up stage
 1 AS funnel_stage,
 'Sign ups' AS funnel name,
 a.platform,
 age_range,
 date(a.download ts) AS download dt,
 --t.transaction ts::TIME as transaction time,
 COUNT(DISTINCT s.user_id) AS user_count
 --count(r.ride id) ride count
 FROM app downloads a
 LEFT JOIN signups s on a.app_download_key = s.session_id
 LEFT JOIN ride requests r on s.user id = r.user id
```

```
LEFT JOIN transactions t on r.ride id = t.ride id
 WHERE s.user_id IS NOT NULL
 GROUP BY funnel stage, funnel name, a.platform, age range, download dt--,
transaction time
 UNION ALL
 SELECT
 2 AS funnel_stage,
 'Requested ride' AS funnel name,
 a.platform,
 age range,
 date(a.download_ts) as download_dt,
 --t.transaction ts:: TIME as transaction time,
 COUNT(DISTINCT r.user id) AS user count
 --count(r.ride_id) ride_count
 FROM app downloads a
 LEFT JOIN signups s ON a.app download key = s.session id
 LEFT JOIN ride_requests r on s.user_id = r.user_id
 LEFT JOIN transactions t on r.ride id = t.ride id
 WHERE r.request_ts IS NOT NULL
 GROUP BY funnel stage, funnel name, a.platform,
age range, download dt--, transaction time
 UNION ALL
 SELECT
 3 AS funnel stage,
 'Accepted ride' AS funnel name,
 a.platform,
 age range,
 date(a.download ts) AS download dt,
 --t.transaction_ts::TIME as transaction_time,
 COUNT(DISTINCT r.user id) AS user count
 --count(r.ride id) ride count
 FROM app_downloads a
 LEFT JOIN signups s ON a.app download key = s.session id
 LEFT JOIN ride requests r ON s.user id = r.user id
 LEFT JOIN transactions t ON r.ride id = t.ride id
 WHERE r.accept ts IS NOT NULL
 GROUP BY funnel_stage,funnel_name, a.platform,
age_range,download_dt--,transaction_time
 UNION ALL
 SELECT
 4 AS funnel_step,
 'Completed ride' AS funnel name,
 a.platform,
 age_range,
 date(a.download ts) AS download dt,
 --t.transaction ts::TIME as transaction time,
 COUNT(DISTINCT r.user_id) AS user_count
 --count(r.ride id) ride count
```

```
FROM app downloads a
 LEFT JOIN signups s ON a.app_download_key = s.session_id
 LEFT JOIN ride requests r ON s.user id = r.user id
 LEFT JOIN transactions t ON r.ride_id = t.ride_id
 WHERE r.cancel ts IS NULL
 GROUP BY funnel step, funnel name, a.platform,
age_range,download_dt--,transaction_time
 UNION ALL
 SELECT
 5 AS funnel stage,
 'Payment' AS funnel_name,
 a.platform,
 age_range,
 date(a.download_ts) as download_dt,
 --t.transaction ts::TIME as transaction time,
 COUNT(DISTINCT r.user id) as user count
 --count(r.ride_id) ride_count
 FROM app downloads a
 LEFT JOIN signups s ON a.app_download_key = s.session_id
 LEFT JOIN ride requests r ON s.user id = r.user id
 JOIN transactions t ON r.ride id = t.ride id
 WHERE charge_status = 'Approved'
 GROUP BY funnel stage, funnel name, a.platform,
age_range,download_dt--,transaction_time
 UNION ALL
 SELECT
 6 AS funnel stage,
 'Review' AS funnel name,
 a.platform,
 age range,
 date(a.download_ts) AS download_dt,
 --t.transaction_ts::TIME as transaction_time,
 COUNT(DISTINCT r.user id) AS user count
 --count(r.ride_id) ride_count
 FROM app_downloads a
 LEFT JOIN signups s ON a.app download key = s.session id
 LEFT JOIN reviews r ON s.user_id = r.user_id
      --join reviews e on r.user id = e.user id
 JOIN transactions t ON r.ride id = t.ride id
 --where r.dropoff ts is not null
 GROUP BY funnel_stage,funnel_name, a.platform,
age_range,download_dt--,transaction_time
)
SELECT
 funnel stage,
 funnel_name,
 platform,
 age range,
```

```
download_dt,
--transaction_time,
user_count
--ride_count
FROM Funnel
ORDER BY funnel_stage, platform,download_dt,age_range, user_count DESC;
--ride_count desc
```

Funnel Data 2 (Ride Funnel)

```
WITH Ride AS(
 SELECT
   1 AS funnel stage,
 'Requested ride' AS funnel name,
 a.platform,
 age_range,
 to_char (r.request_ts, 'hh24') AS book_time,
 COUNT(DISTINCT r.user id) AS user count,
 COUNT(r.ride_id) ride_count
 FROM app downloads a
 LEFT JOIN signups s ON a.app_download_key = s.session_id
 LEFT JOIN ride_requests r ON s.user_id = r.user_id
 LEFT JOIN transactions t ON r.ride id = t.ride id
 WHERE r.request_ts IS NOT NULL
 GROUP BY funnel stage, funnel name, a.platform, age range, book time
 UNION ALL
 SELECT
   2 AS funnel stage,
 'Accepted ride' AS funnel name,
 a.platform,
 age_range,
 to_char (r.request_ts, 'hh24') AS book_time,
 COUNT(DISTINCT r.user id) AS user count,
 COUNT(r.ride_id) ride_count
 FROM app downloads a
 LEFT JOIN signups s ON a.app_download_key = s.session_id
 LEFT JOIN ride_requests r ON s.user_id = r.user_id
 LEFT JOIN transactions t ON r.ride id = t.ride id
 WHERE r.accept_ts IS NOT NULL
 GROUP BY funnel stage, funnel name, a.platform, age range, book time
 UNION ALL
 SELECT
   3 AS funnel_stage,
 'Completed ride' AS funnel name,
 a.platform,
 age_range,
```

```
to_char (r.request_ts, 'hh24') AS book_time,
 COUNT(DISTINCT r.user_id) AS user_count,
 COUNT(r.ride id) ride count
 FROM app_downloads a
 LEFT JOIN signups s ON a.app download key = s.session id
 LEFT JOIN ride requests r ON s.user id = r.user id
 LEFT JOIN transactions t ON r.ride_id = t.ride_id
 WHERE r.cancel_ts IS NULL
 GROUP BY funnel_stage,funnel_name, a.platform, age_range,book_time
 UNION ALL
  SELECT
   4 AS funnel_stage,
 'Payment' AS funnel name,
 a.platform,
 age range,
 to char (r.request_ts, 'hh24') AS book_time,
 COUNT(DISTINCT r.user_id) AS user_count,
 COUNT(t.ride id) ride count
 FROM app_downloads a
 LEFT JOIN signups s ON a.app_download_key = s.session_id
 LEFT JOIN ride requests r ON s.user id = r.user id
 JOIN transactions t ON r.ride_id = t.ride_id
 WHERE charge status = 'Approved'
 GROUP BY funnel_stage,funnel_name, a.platform, age_range,book_time
 UNION ALL
 SELECT
    5 AS funnel stage,
 'Review' AS funnel name,
 platform,
 age range,
 to_char (request_ts, 'hh24') AS book_time,
 COUNT(DISTINCT user_id) AS user_count,
 COUNT(ride id) AS ride count
 FROM metrocar
 WHERE review IS NOT NULL
 GROUP BY funnel_stage,funnel_name, platform, age_range,book_time
)
SELECT
 funnel stage,
 funnel name,
 platform,
 age_range,
 book time,
 --user_count,
 ride count
FROM Ride
ORDER BY funnel_stage, user_count DESC, ride_count DESC;
```

Funnel Data 3 (Main Query Funnel)

```
-- Main Query for Funnel Analysis Data Extraction
SELECT
  ad.app_download_key,
  ad.platform,
  ad.download_ts,
  s.user_id,
  s.signup_ts,
  s.age_range,
  rr.ride id AS requested ride id,
  rr.request_ts,
  rr.accept_ts,
  rr.pickup ts,
  rr.dropoff_ts,
  rr.cancel ts,
  t.transaction id,
  t.purchase_amount_usd,
  t.charge_status,
  t.transaction ts,
  r.review id,
  r.rating,
  r.review AS review text
FROM app downloads ad
LEFT JOIN signups s ON ad.app_download_key = s.session_id
LEFT JOIN ride requests rr ON s.user id = rr.user id
LEFT JOIN transactions t ON rr.ride id = t.ride id
LEFT JOIN reviews r ON rr.ride_id = r.ride_id
ORDER BY ad.app download key, s.user id, rr.ride id;
```

The query for Percent Of Top And Percent Of Previous

```
-- Main query for calculating 'Percent of Top' and 'Percent of Previous' WITH Funnel AS (
-- Stage 0: App Downloads
SELECT
0 AS Funnel_stage,
'App Downloads' AS funnel_name,
COUNT(DISTINCT app_download_key) AS user_count
FROM app_downloads
UNION ALL
-- Stage 1: Signups
SELECT
1,
'Signups',
```

```
COUNT(DISTINCT user_id)
FROM signups
UNION ALL
-- Stage 2: Ride Requests
SELECT
  2,
  'Ride Requests',
  COUNT(DISTINCT user_id)
FROM ride_requests
WHERE request_ts IS NOT NULL
UNION ALL
-- Stage 3: Rides Accepted
SELECT
  3,
  'Rides Accepted',
  COUNT(DISTINCT user_id)
FROM ride_requests
WHERE accept_ts IS NOT NULL
UNION ALL
-- Stage 4: Rides Completed
SELECT
  4,
  'Rides Completed',
  COUNT(DISTINCT user_id)
FROM ride_requests
WHERE dropoff_ts IS NOT NULL
UNION ALL
-- Stage 5: Payments Approved
SELECT
  5,
  'Payments Approved',
  COUNT(DISTINCT r.user_id)
FROM transactions t
JOIN ride_requests r ON t.ride_id = r.ride_id
WHERE t.charge_status = 'Approved'
UNION ALL
-- Stage 6: Reviews
SELECT
```