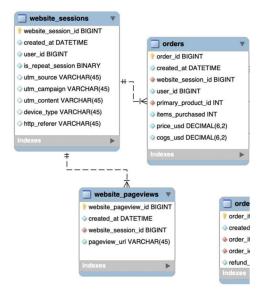
Problem statement: On September 25th company started giving customers the option to add a 2nd product while on the '/cart' page. Write a query to compare the month before vs the month after the change? Result should include CTR (Conversion rate) from the /cart page, Avg Products per Order, AOV (Average order value), and overall revenue per /cart page view.

Dataset Schema



Tools Used: MySQL

```
-- STEP-1 identifying relevent cart page views with their respective session
-- For this, i will create a temporary table using website_pageview pages and filter the data for respective dates and cart pageviews

CREATE TEMPORARY TABLE cart_pageview_id

SELECT

website_session_id,
created_at,
website_pageview_id,

CASE

WHEN created_at < '2013-09-25' THEN 'A.pre_cross_sell'
WHEN created_at >= '2013-09-25' THEN 'B.post_cross_sell'
ELSE 'hi'
END AS time_period

FROM website_pageviews

WHERE

created_at > '2013-08-25' AND -- 25th august is one month prior to launch of the new product
created_at < '2013-10-25' AND -- 25th ocotber is one month later to launch of the new product
pageview_url = '/cart'
```

```
-- Now,I will join order details from orders page to next_pageview table and by doing so i can analyze products purchased and average_order_value(AOV).

CREATE TEMPORARY TABLE cart_orders

SELECT
    np.time_period,
    np.website_session_id,
    os.items_purchased,
    np.next_page_id,
    os.price_usd

FROM
    next_pageview np

LEFT JOIN
    orders os

ON
    os.website_session_id = np.website_session_id
```

```
-- As a final step I will summarize cart_orders table to get requested parameters in problem statement

SELECT

time_period,

COUNT(DISTINCT website_session_id) AS cart_sessions,

COUNT(DISTINCT Next_page_id) AS clickthroughs,

COUNT(DISTINCT Next_page_id)/COUNT(DISTINCT website_session_id) AS cart_ctr, -- cart conversion

rate

AVG(items_purchased)products_per_order,

AVG(price_usd) AS aov, -- average order value

SUM(price_usd)/COUNT(DISTINCT website_session_id) AS rev_per_cart_session -- revenue per session

FROM

cart_orders

GROUP BY 1
```

	time_period	cart_sessions	clickthroughs	cart_ctr	products_per_order	aov	rev_per_cart_session
•	A.pre_cross_sell	1830	1229	0.6716	1.0000	51.416380	18.318842
	B.post_cross_sell	1975	1351	0.6841	1.0447	54.251848	18.431894

Conclusion: It looks like the CTR from the /cart page didn't go down and that products per order, AOV, and revenue per /cart session are all up slightly since the cross-sell feature was added.