**OLIST ECOMMERCE DATA ANALYSIS**

**MYSQL QUERIES**

**KPI-1 (Payment by weekdays vs weekend)**

WITH T1 AS

(SELECT order\_id,order\_purchase\_timestamp,LEFT(order\_purchase\_timestamp,3)as daynames FROM ORDERS21

WHERE LEFT(order\_purchase\_timestamp,3) IN ('Mon','Tue','Wed','Thu','Fri','Sat','Sun')),

T2 AS

(SELECT order\_id,payment\_value from payments)

SELECT weekday\_weekend,CONCAT(ROUND(SUM(payment\_value)/(SELECT SUM(payment\_value) FROM payments) \*100),'%')

AS Percentage\_payment FROM T2

JOIN(SELECT order\_id,

CASE

WHEN daynames ='Sat' THEN 'weekend'

WHEN daynames ='Sun' THEN 'weekend'

ELSE 'weekdays'

END AS 'weekday\_weekend'

FROM T1) AS T3

ON T3.order\_id=T2.order\_id

GROUP BY weekday\_weekend;

***RESULT:***

***Weekday\_weekend percentage Total\_payment***

***Weekdays 77%***

***Weekend 23%***

**KPI-2**

**(No of orders for Review Score-5 and Payment type-Credit card)**

SELECT a.review\_score,b.payment\_type,COUNT(b.order\_id) as Total\_orders from reviews as a

JOIN payments as b

ON a.order\_id=b.order\_id

WHERE review\_score=5 AND payment\_type ='credit\_card'

GROUP BY review\_score,payment\_type;

***Result:***

***Credit\_score payment\_type Total\_orders***

***5 credit\_card 44333***

**KPI-3 (Average Shipping days for Pet Shop)**

SELECT a.product\_category\_name,

ROUND(AVG(DATEDIFF(c.order\_delivered\_customer\_date,c.order\_purchase\_timestamp))) as shipping\_days from products as a

JOIN items as b

ON a.product\_id=b.product\_id

JOIN orders as c

ON c.order\_id=b.order\_id

GROUP BY product\_category\_name

HAVING product\_category\_name='PET\_SHOP';

***RESULT:***

***Product\_category\_name AVG shipping days***

***Pet\_shop 11***

**KPI-4 (Avg price and payment value for Sao Paulo city)**

SELECT a.customer\_city,ROUND(AVG(b.price)) as Average\_price,ROUND(AVG(c.payment\_value)) as Average\_payment FROM customers as a

JOIN sellers as d

ON a.customer\_zip\_code\_prefix=d.seller\_zip\_code\_prefix

JOIN items as b

ON b.seller\_id=d.seller\_id

JOIN payments as c

ON c.order\_id=b.order\_id

WHERE a.customer\_city='sao paulo'

GROUP BY 1;

***RESULT:***

***Customer\_city Average\_price Average\_payment***

***Sao Paulo 103 147***

**KPI-5**

**(Relationship between shipping days and review score)**

SELECT a.review\_score,ROUND(AVG(DATEDIFF(b.order\_delivered\_customer\_date,b.order\_purchase\_timestamp))) as shipping\_days from reviews as a

JOIN orders as b

ON

a.order\_id = b.order\_id

GROUP BY 1

ORDER BY 1;

***RESULT:***

***Review\_score shipping days***

1. ***21***
2. ***17***
3. ***16***
4. ***14***
5. ***11***