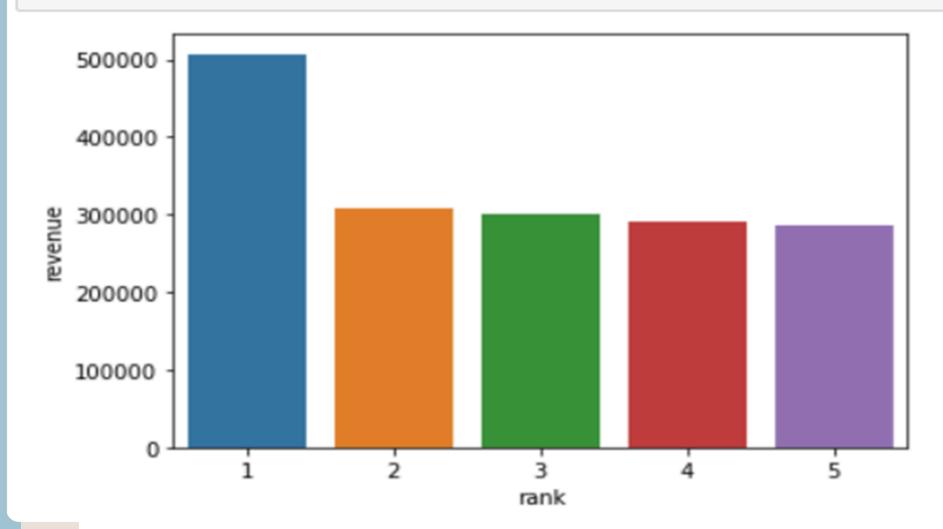
Total revenue generated by top 5 Seller

10. Calculate the total revenue generated by each seller, and rank them by revenue.



Cummelative sum of sales on monthly basis

12. Calculate the cumulative sales per month for each year.

	years	month	payments	cume_payment
0	2016	December	19.62	19.62
1	2016	October	59090.48	59110.10
2	2016	September	252.24	59362.34
3	2017	April	417788.03	477150.37
4	2017	August	674396.32	1151546.69

Year on Year Sales Growth

13. Calculate the year-over-year growth rate of total sales.

query=""" WITH cte AS (SELECT YEAR(orders.order_purchase_timestamp) AS years, ROUND(SUM(payments.payment_value), 2) AS payment FROM orders JOIN payments ON orders.order_id = payments.order_id GROUP BY years), cte2 AS (SELECT c1.years, c1.payment, c2.payment AS pre_year_payment FROM cte c1 JOIN cte c2 ON c1.years = c2.years + 1SELECT cte2.*, ((cte.payment - pre_year_payment) / pre_year_payment) * 100 AS YOYGrowth FROM cte2 JOIN cte ON cte2.years = cte.years ORDER BY cte2.years; cur.execute(query) data= cur.fetchall() data df=pd.DataFrame(data,columns=['Years','Payments','Pre_Year_payment','YoY% Growth']) df

	Years	Payments	Pre_Year_payment	YoY% Growth
0	2017	7249746.73	59362.34	12112.703761
1	2018	8699763.05	7249746.73	20.000924

Top 3 Customer on Yearly Basis

15. Identify the top 3 customers who spent the most money in each year.

