

The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance.

# Navigating the Future of Online Shopping E-Commerce Data Analysis

## A Comparative Approach using SQL and Python

# BASIC PROBLEMS

OBJECTIVE: EXTRACT FUNDAMENTAL INSIGHTS FROM THE DATASET  
LIST ALL UNIQUE CITIES WHERE CUSTOMERS ARE LOCATED

## SQL QUERY


```
-- 1. List all unique cities where customers are located.
```

```
SELECT DISTINCT
```

```
customer_city
```

```
FROM customers
```

```
ORDER BY customer_city;
```

Result Grid			Filter Rows:
	customer_city		
▶	abadia dos dourados		
	abadiania		
	abaete		
	abaetetuba		
	abaiara		
	abaira		
	abare		
	abatia		
	abdon batista		
customers 14		✕	

## PYTHON CODE



```
unique_cities = customers['customer_city'].unique()  
unique_cities.sort()  
print(unique_cities)
```

```
*** ['abadia dos dourados' 'abadiania' 'abaete' ... 'zacarias' 'ze doca'  
    'zortea']
```

# COUNT THE NUMBER OF ORDERS PLACED IN 2017

## SQL QUERY

## PYTHON CODE

```
SELECT
    COUNT(order_id)
FROM
    orders
WHERE
    YEAR(order_purchase_timestamp) = 2017;
```

	COUNT(order_id)
▶	45101

## 2. Orders in 2017

```
orders_2017 = orders[orders['order_purchase_timestamp'].dt.year == 2017].shape[0]
print(orders_2017)
```

```
... 45101
```

# FIND THE TOTAL SALES PER CATEGORY SQL QUERY

SELECT

p.product\_category, ROUND(SUM(oi.price), 2) AS total\_sales

FROM

order\_items oi

JOIN

products p ON oi.product\_id = p.product\_id

GROUP BY p.product\_category

ORDER BY total\_sales DESC;

	product_category	total_sales
▶	HEALTH BEAUTY	1258681.34
	Watches present	1205005.68
	bed table bath	1036988.68
	sport leisure	988048.97
	computer accessories	911954.32
	Furniture Decoration	729762.49

Result 11 ✕

## PYTHON CODE

```
▶ sales_per_cat = order_details.groupby('product category')['price'].sum().sort_values(ascending=False)  
print(sales_per_cat)
```

```
... product category  
HEALTH BEAUTY          1258681.34  
Watches present        1205005.68  
bed table bath         1036988.68  
sport leisure          988048.97  
computer accessories   911954.32  
...  
flowers                1110.04  
House Comfort 2        760.27  
cds music dvds         730.00  
Fashion Children's Clothing 569.85  
insurance and services 283.29  
Name: price, Length: 73, dtype: float64
```

## CALCULATE THE PERCENTAGE OF ORDERS THAT WERE PAID IN INSTALLMENTS.

-- 4. Calculate the percentage of orders that were paid in installments.

SELECT

```
(COUNT(CASE  
    WHEN payment_installments > 1 THEN 1  
END) / COUNT(*)) * 100 AS pct_installments
```

FROM

payments;

4. % of orders paid in installments

```
pct_installments = (payments[payments['payment_installments'] > 1].shape[0] / payments.shape[0]) * 100  
print(pct_installments)
```

49.41763086460158

Result Grid



Filter Rows:

	pct_installments
▶	49.4176

# COUNT THE NUMBER OF CUSTOMERS FROM EACH STATE

## SQL QUERY

## PYTHON CODE

```
-- 5. Count the number of customers from each state.
SELECT
    customer_state, COUNT(customer_id) AS customer_count
FROM
    customers
GROUP BY customer_state
ORDER BY customer_count DESC;

SELECT
    MONTHNAME(order_purchase_timestamp) AS month,
    COUNT(order_id) AS order_count
FROM
    orders
WHERE
    YEAR(order_purchase_timestamp) = 2018
GROUP BY month
ORDER BY MONTH(order_purchase_timestamp);
```

Result Grid | Filter Rows:

	customer_state	customer_count
▶	SP	41746
	RJ	12852
	MG	11635
	RS	5466
	PR	5045
	SC	3637
	BA	3380
	DF	2140
	ES	2033

```
▶ cust_per_state = customers['customer_state'].value_counts()
   print(cust_per_state)
```

```
... customer_state
SP      41746
RJ      12852
MG      11635
RS       5466
PR       5045
SC       3637
BA       3380
DF       2140
ES       2033
GO       2020
PE       1652
CE       1336
PA        975
MT        907
MA        747
MS        715
PB        536
PI        495
RN        485
AL        413
```

# INTERMEDIATE PROBLEMS

OBJECTIVE: DIVE DEEPER INTO SALES AND ORDER TRENDS

FIND THE AVERAGE NUMBER OF PRODUCTS PER ORDER, GROUPED BY CUSTOMER CITY

```
WITH count_per_order AS (  
    SELECT o.order_id, c.customer_city, COUNT(oi.product_id) AS product_count  
    FROM orders o  
    JOIN customers c ON o.customer_id = c.customer_id  
    JOIN order_items oi ON o.order_id = oi.order_id  
    GROUP BY o.order_id, c.customer_city  
)  
SELECT customer_city, ROUND(AVG(product_count), 2) AS avg_products_per_order  
FROM count_per_order  
GROUP BY customer_city  
ORDER BY avg_products_per_order DESC;
```

	customer_city	avg_products_per_order
▶	padre carvalho	7.00
	celso ramos	6.50
	datas	6.00
	candido godoi	6.00
	matias olimpio	5.00
	morro de sao paulo	4.00
	teixeira soares	4.00
	cidelandia	4.00
	curralinho	4.00

Result 2 ✕

Python code



```
avg_items_city = order_details.groupby(['customer_city', 'order_id']).size().groupby('customer_city').mean().sort_values(ascending=False)  
  
print(avg_items_city)
```

```
... customer_city  
padre carvalho    7.0  
celso ramos       6.5  
candido godoi     6.0  
datas             6.0  
matias olimpio    5.0  
...  
indiana           1.0  
indianapolis      1.0  
indiapora         1.0  
indiaroba         1.0  
ilicinea          1.0  
Length: 4071, dtype: float64
```




## CALCULATE THE PERCENTAGE OF TOTAL REVENUE CONTRIBUTED BY EACH PRODUCT CATEGORY.

```
SELECT
    p.product_category,
    ROUND((SUM(oi.price) / (SELECT
        SUM(price)
        FROM
        order_items)) * 100,
    2) AS revenue_percentage
FROM
    order_items oi
    JOIN
    products p ON oi.product_id = p.product_id
GROUP BY p.product_category
ORDER BY revenue_percentage DESC;
```

Result Grid   Filter Rows:

	product_category	revenue_percentage
▶	HEALTH BEAUTY	9.26
	Watches present	8.87
	bed table bath	7.63
	sport leisure	7.27
	computer accessories	6.71
	Furniture Decoration	5.37
	Cool Stuff	4.67
	housewares	4.65
	automotive	4.36

Result 18 

```
▶ total_revenue = order_items['price'].sum()
  cat_revenue_pct = (sales_per_cat / total_revenue) * 100
  print(total_revenue)
  print(cat_revenue_pct)

... 13591643.700000003
     product category
HEALTH BEAUTY          9.260700
Watches present       8.865783
bed table bath        7.629605
sport leisure         7.269533
computer accessories  6.709669
...
flowers                0.008167
House Comfort 2       0.005594
cds music dvds        0.005371
Fashion Children's Clothing 0.004193
insurance and services 0.002084
Name: price, Length: 73, dtype: float64
```



## IDENTIFY THE CORRELATION BETWEEN PRODUCT PRICE AND THE NUMBER OF TIMES A PRODUCT HAS BEEN PURCHASED

SELECT

```
oi.product_id,  
AVG(oi.price) AS avg_price,  
COUNT(oi.order_id) AS purchase_count
```

FROM

```
order_items oi
```

GROUP BY oi.product\_id;

```
prod_stats = order_items.groupby('product_id').agg({'price': 'mean', 'order_id': 'count'})  
correlation = prod_stats['price'].corr(prod_stats['order_id'])  
print(prod_stats)  
print(correlation)
```

```
...                                     price  order_id  
product_id  
00066f42aeeb9f3007548bb9d3f33c38  101.65          1  
00088930e925c41fd95ebfe695fd2655  129.90          1  
0009406fd7479715e4bef61dd91f2462  229.00          1  
000b8f95fcb9e0096488278317764d19   58.90          2  
000d9be29b5207b54e86aa1b1ac54872  199.00          1  
...                                     ...          ...  
fff6177642830a9a94a0f2cba5e476d1  114.99          2  
fff81cc3158d2725c0655ab9ba0f712c   90.00          1  
fff9553ac224cec9d15d49f5a263411f   32.00          1  
fffdb2d0ec8d6a61f0a0a0db3f25b441   33.99          5  
fffe9eeff12fcbd74a2f2b007dde0c58  249.99          1
```

```
[32951 rows x 2 columns]  
-0.032139862680945167
```

Result Grid | Filter Rows: | Export: | Wrap Cell



	product_id	avg_price	purchase_count
▶	00066f42aeeb9f3007548bb9d3f33c38	101.650000	1
	00088930e925c41fd95ebfe695fd2655	129.900000	1
	0009406fd7479715e4bef61dd91f2462	229.000000	1
	000b8f95fcb9e0096488278317764d19	58.900000	2
	000d9be29b5207b54e86aa1b1ac54872	199.000000	1
	0011c512eb256aa0dbbb544d8dfcf6e	52.000000	1
	00126f27c813603687e6ce486d909d01	249.000000	2
	001795ec6f1b187d37335e1c4704762e	38.900000	9
	001b237c0e9bb435f2e54071129237e9	78.900000	1

Result 19 x

## CALCULATE THE TOTAL REVENUE GENERATED BY EACH SELLER, AND RANK THEM BY REVENUE.

-- 5. Calculate total revenue generated by each seller and rank them.

```
SELECT seller_id, ROUND(SUM(price), 2) AS total_revenue,  
       RANK() OVER(ORDER BY SUM(price) DESC) AS revenue_rank  
FROM order_items  
GROUP BY seller_id;
```

Result Grid   Filter Rows:  Export:  Wrap Cell Cc

	seller_id	total_revenue	revenue_rank
▶	4869f7a5dfa277a7dca6462dcf3b52b2	229472.63	1
	53243585a1d6dc2643021fd1853d8905	222776.05	2
	4a3ca9315b744ce9f8e9374361493884	200472.92	3
	fa1c13f2614d7b5c4749cbc52fecda94	194042.03	4
	7c67e1448b00f6e969d365cea6b010ab	187923.89	5
	7e93a43ef30c4f03f38b393420bc753a	176431.87	6
	da8622b14eb17ae2831f4ac5b9dab84a	160236.57	7
	7a67c85e85bb2ce8582c35f2203ad736	141745.53	8
	1025f0e2d44d7041d6cf58b6550a0bfa	138968.55	9

```
▶ seller_rev = order_items.groupby('seller_id')['price'].sum().reset_index()  
seller_rev['total_revenue']=seller_rev['price'].round(2)  
seller_rev['revenue_rank']=seller_rev['total_revenue'].rank(ascending=False,  
method='min').astype(int)  
seller_rev=seller_rev.sort_values(by='revenue_rank').reset_index(drop=True)  
print(seller_rev)
```

```
...           seller_id      price  total_revenue  revenue_rank  
0  4869f7a5dfa277a7dca6462dcf3b52b2  229472.63      229472.63         1  
1  53243585a1d6dc2643021fd1853d8905  222776.05      222776.05         2  
2  4a3ca9315b744ce9f8e9374361493884  200472.92      200472.92         3  
3  fa1c13f2614d7b5c4749cbc52fecda94  194042.03      194042.03         4  
4  7c67e1448b00f6e969d365cea6b010ab  187923.89      187923.89         5
```

## ADVANCED PROBLEMS

### OBJECTIVE: GENERATE STRATEGIC AND CUSTOMER-CENTRIC INSIGHTS

. CALCULATE THE MOVING AVERAGE OF ORDER VALUES FOR EACH CUSTOMER OVER THEIR ORDER HISTORY.

```
WITH OrderTotals AS (  
    SELECT order_id, SUM(payment_value) as total_order_value FROM payments GROUP BY order_id  
) , CustomerHistory AS (  
    SELECT  
        c.customer_unique_id,  
        o.order_id,  
        o.order_purchase_timestamp,  
        ot.total_order_value FROM orders o  
    JOIN OrderTotals ot ON o.order_id = ot.order_id  
    JOIN customers c ON o.customer_id = c.customer_id ) SELECT  
    customer_unique_id,  
    order_id,  
    order_purchase_timestamp,  
    total_order_value, AVG(total_order_value) OVER (  
        PARTITION BY customer_unique_id  
        ORDER BY order_purchase_timestamp  
        ROWS BETWEEN 2 PRECEDING AND CURRENT ROW  
    ) as moving_avg  
FROM CustomerHistory  
ORDER BY customer_unique_id, order_purchase_timestamp;
```

	customer_unique_id	order_id	order_purchase_timestamp	total_order_value	moving_avg
▶	0000366f3b9a7992bf8c76cfd3221e2	e22acc9c116caa3f2b7121bbb380d08e	2018-05-10 10:56:27	141.90	141.900000
	0000b849f77a49e4a4ce2b2a4ca5be3f	3594e05a005ac4d06a72673270ef9ec9	2018-05-07 11:11:27	27.19	27.190000
	0000f46a3911fa3c0805444483337064	b33ec3b699337181488304f362a6b734	2017-03-10 21:05:03	86.22	86.220000
	0000f6ccb0745a6a4b88665a16c9f078	41272756ecddd9a9ed0180413cc22fb6	2017-10-12 20:29:41	43.62	43.620000
	0004aac84e0df4da2b147fca70cf8255	d957021f1127559cd947b62533f484f7	2017-11-14 19:45:42	196.89	196.890000
	0004bd2a26a76fe21f786e4fbd80607f	3e470077b690ea3e3d501cffb5e0c499	2018-04-05 19:33:16	166.98	166.980000
	00050ab1314c0e55a6ca13cf7181fecf	d0028facea13f508e880202d7097a5a1	2018-04-20 12:57:23	35.38	35.380000
	00053a61a98854899e70ed204dd4bafef	44e608f2db00c74a1fe329de44416a4e	2018-02-28 11:15:41	419.18	419.180000
	0005e1862207bf6ccc02e4228effd9a0	ae76bef74b97bcb0b3e355e60d9a6f9c	2017-03-04 23:32:12	150.12	150.120000

## PYTHON CODE

```
order_payments = payments.groupby('order_id')['payment_value'].sum().reset_index()
df = orders.merge(order_payments, on='order_id') \
    .merge(customers[['customer_id', 'customer_unique_id']], on='customer_id')
df['order_purchase_timestamp'] = pd.to_datetime(df['order_purchase_timestamp'])
df = df.sort_values(['customer_unique_id', 'order_purchase_timestamp'])
df['moving_avg'] = df.groupby('customer_unique_id')['payment_value'] \
    .transform(lambda x: x.rolling(window=3, min_periods=1).mean())
result = df[['customer_unique_id', 'order_id', 'order_purchase_timestamp', 'payment_value', 'moving_avg']]
print(result.head())
```

```
...      customer_unique_id      order_id \
52797  0000366f3b9a7992bf8c76cfd3221e2  e22acc9c116caa3f2b7121bbb380d08e
73888  0000b849f77a49e4a4ce2b2a4ca5be3f  3594e05a005ac4d06a72673270ef9ec9
26460  0000f46a3911fa3c0805444483337064  b33ec3b699337181488304f362a6b734
98492  0000f6ccb0745a6a4b88665a16c9f078  41272756ecddd9a9ed0180413cc22fb6
41563  0004aac84e0df4da2b147fca70cf8255  d957021f1127559cd947b62533f484f7

      order_purchase_timestamp  payment_value  moving_avg
52797      2018-05-10 10:56:27          141.90        141.90
73888      2018-05-07 11:11:27           27.19         27.19
26460      2017-03-10 21:05:03           86.22         86.22
98492      2017-10-12 20:29:41           43.62         43.62
41563      2017-11-14 19:45:42          196.89        196.89
```

## . CALCULATE THE CUMULATIVE SALES PER MONTH FOR EACH YEAR

```
-- 2. Calculate the cumulative sales per month for each year.  
SELECT year, month, ROUND(monthly_sales, 2),  
       ROUND(SUM(monthly_sales) OVER(PARTITION BY year ORDER BY month), 2) AS cumulative_sales  
FROM (  
    SELECT YEAR(order_purchase_timestamp) AS year,  
           MONTH(order_purchase_timestamp) AS month, SUM(payment_value) AS monthly_sales  
    FROM orders o  
    JOIN payments p ON o.order_id = p.order_id  
    GROUP BY year, month  
) AS t;
```

Result Grid					Filter Rows:	Export:	Wrap C
	year	month	ROUND(monthly_sales, 2)	cumulative_sales			
▶	2016	9	252.24	252.24			
	2016	10	59090.48	59342.72			
	2016	12	19.62	59362.34			
	2017	1	138488.04	138488.04			
	2017	2	291908.01	430396.05			
	2017	3	449863.60	880259.65			
	2017	4	417788.03	1298047.68			
	2017	5	592918.82	1890966.50			

Result 22 ✕

## PYTHON CODE

```
▶ order_payments = payments.groupby('order_id')['payment_value'].sum().reset_index()
df = pd.merge(orders[['order_id', 'order_purchase_timestamp']], order_payments, on='order_id')
df['order_purchase_timestamp'] = pd.to_datetime(df['order_purchase_timestamp'])
df['year'] = df['order_purchase_timestamp'].dt.year
df['month'] = df['order_purchase_timestamp'].dt.month
monthly_sales = df.groupby(['year', 'month'])['payment_value'].sum().reset_index()
monthly_sales = monthly_sales.sort_values(['year', 'month'])
monthly_sales['cumulative_sales'] = monthly_sales.groupby('year')['payment_value'].cumsum()
print(monthly_sales)
```


```
...   year  month  payment_value  cumulative_sales
0   2016     9         252.24         252.24
1   2016    10        59090.48        59342.72
2   2016    12         19.62        59362.34
3   2017     1       138488.04       138488.04
4   2017     2       291908.01       430396.05
5   2017     3       449863.60       880259.65
6   2017     4       417788.03      1298047.68
7   2017     5       592918.82      1890966.50
8   2017     6       511276.38      2402242.88
9   2017     7       592382.92      2994625.80
```




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

```
-- 3. Calculate the Year-over-Year (YoY) growth rate of total sales.
WITH yearly_sales AS (
  SELECT YEAR(order_purchase_timestamp) AS year, SUM(payment_value) AS total_sales
  FROM orders o
  JOIN payments p ON o.order_id = p.order_id
  GROUP BY year
)
SELECT year, total_sales,
  LAG(total_sales) OVER(ORDER BY year) AS prev_year_sales,
  ROUND(((total_sales - LAG(total_sales) OVER(ORDER BY year)) / LAG(total_sales) OVER(ORDER BY year)) * 100, 2)
  AS yoy_growth_percentage
FROM yearly_sales;
```

Result Grid

 Filter Rows:

Export: 

Wrap Cell

	year	total_sales	prev_year_sales	yoy_growth_percentage
	2016	59362.34	NULL	NULL
	2017	7249746.73	59362.34	12112.70
	2018	8699763.05	7249746.73	20.00

## Python code

```
# 5. Calculate YoY growth percentage
yearly_sales['yoy_growth_percentage'] = (
  (yearly_sales['total_sales'] - yearly_sales['prev_year_sales']) /
  yearly_sales['prev_year_sales']
) * 100

# 6. Round the growth percentage to 2 decimal places
yearly_sales['yoy_growth_percentage'] = yearly_sales['yoy_growth_percentage'].round(2)

# Display the result
print(yearly_sales)
```

...	year	total_sales	prev_year_sales	yoy_growth_percentage
0	2016	59362.34	NaN	NaN
1	2017	7249746.73	59362.34	12112.7
2	2018	8699763.05	7249746.73	20.0



# Calculate the retention rate of customers, defined as the percentage of customers who make another purchase within 6 months of their first purchase.

```
-- 4. Calculate the retention rate (Repurchase within 6 months).  
SELECT COUNT(DISTINCT CASE WHEN FLOOR(TIMESTAMPDIFF(SECOND, fp.first_order_date, o.order_purchase_timestamp) / 86400) BETWEEN 1 AND 180  
      THEN fp.customer_unique_id  
      END) * 100.0 / COUNT(DISTINCT fp.customer_unique_id) AS retention_rate  
FROM (  
  SELECT c.customer_unique_id, MIN(o.order_purchase_timestamp) AS first_order_date FROM orders o JOIN customers c ON o.customer_id = c.customer_id  
  GROUP BY c.customer_unique_id  
) fp  
LEFT JOIN customers c ON fp.customer_unique_id = c.customer_unique_id  
LEFT JOIN orders o ON c.customer_id = o.customer_id;
```

Result Grid



	retention_rate
▶	1.67333

## PYTHON CODE

```
orders['order_purchase_timestamp'] = pd.to_datetime(orders['order_purchase_timestamp'])  
order_cust = orders.merge(customers[['customer_id', 'customer_unique_id']], on='customer_id')  
first_purchases = order_cust.groupby('customer_unique_id')['order_purchase_timestamp'].min().reset_index()  
first_purchases.columns = ['customer_unique_id', 'first_purchase_date']  
retention_df = order_cust.merge(first_purchases, on='customer_unique_id')  
retention_df['days_diff'] = (retention_df['order_purchase_timestamp'] - retention_df['first_purchase_date']).dt.days  
retained_count = retention_df[(retention_df['days_diff'] > 0) &  
                              (retention_df['days_diff'] <= 180)]['customer_unique_id'].nunique()  
total_count = first_purchases['customer_unique_id'].nunique()  
retention_rate = (retained_count / total_count) * 100  
print(f"Retention Rate: {retention_rate:.2f}%")
```

... Retention Rate: 1.67%

# IDENTIFY THE TOP 3 CUSTOMERS WHO SPENT THE MOST MONEY IN EACH YEAR.

## SQL query

```
-- 3. Identify the top 3 customers who spent the most money in each year.
WITH YearlySpending AS (
    SELECT
        YEAR(o.order_purchase_timestamp) AS purchase_year,
        c.customer_unique_id,
        SUM(p.payment_value) AS total_spent FROM orders o JOIN payments p ON o.order_id = p.order_id
    JOIN customers c ON o.customer_id = c.customer_id GROUP BY 1, 2
),
RankedSpending AS (
    SELECT purchase_year, customer_unique_id, total_spent,
        ROW_NUMBER() OVER (PARTITION BY purchase_year ORDER BY total_spent DESC) AS `rank`
    FROM YearlySpending
)
SELECT *
FROM RankedSpending
WHERE `rank` <= 3
ORDER BY purchase_year, `rank`;
```

	purchase_year	customer_unique_id	total_spent	rank
▶	2016	fdaa290acb9eeacb66fa7f979baa6803	1423.55	1
	2016	753bc5d6efa9e49a03e34cf521a9e124	1400.74	2
	2016	b92a2e5e8a6eabcc80882c7d68b2c70b	1227.78	3
	2017	0a0a92112bd4c708ca5fde585afaa872	13664.08	1
	2017	da122df9eeddfedc1dc1f5349a1a690c	7571.63	2
	2017	dc4802a71eae9be1dd28f5d788ceb526	6929.31	3
	2018	46450c74a0d8c5ca9395da1daac6c120	9553.02	1
	2018	763c8b1c9c68a0229c42c9fc6f662b93	7274.88	2
	2018	459bef486812aa25204be022145caa62	6922.21	3

## PYTHON CODE



```
orders['order_purchase_timestamp'] = pd.to_datetime(orders['order_purchase_timestamp'])
orders['purchase_year'] = orders['order_purchase_timestamp'].dt.year
df = orders.merge(payments, on='order_id').merge(customers, on='customer_id')
spending = df.groupby(['purchase_year', 'customer_unique_id'])['payment_value'].sum().reset_index()
spending['rank'] = spending.groupby('purchase_year')['payment_value'] \
    .rank(ascending=False, method='first').astype(int)
top_3 = spending[spending['rank'] <= 3].sort_values(['purchase_year', 'rank'])
print(top_3[['purchase_year', 'rank', 'customer_unique_id', 'payment_value']])
```

```
...      purchase_year  rank  customer_unique_id  payment_value
319          2016        1  fd aa290acb9eeacb66fa7f979baa6803      1423.55
145          2016        2  753bc5d6efa9e49a03e34cf521a9e124      1400.74
234          2016        3  b92a2e5e8a6eabcc80882c7d68b2c70b      1227.78
2075         2017        1  0a0a92112bd4c708ca5fde585afaa872     13664.08
37662        2017        2  da122df9eeddfedc1dc1f5349a1a690c      7571.63
38033        2017        3  dc4802a71eae9be1dd28f5d788ceb526      6929.31
58553        2018        1  46450c74a0d8c5ca9395da1daac6c120      9553.02
68456        2018        2  763c8b1c9c68a0229c42c9fc6f662b93      7274.88
58410        2018        3  459bef486812aa25204be022145caa62      6922.21
```