

--1 No.of business in each category

```
with cte as(

select business_id,trim(A.value) as Category

from tbl_yelp_business

,lateral split_to_table(categories,',')A

)

select Category,count(*) as no_of_business

from cte

group by 1

order by 2 desc
```

	A CATEGORY	# NO_OF_BUSINESS
1	Restaurants	52268
2	Food	27781
3	Shopping	24395
4	Home Services	14356
5	Beauty & Spas	14292
6	Nightlife	12281
7	Health & Medical	11890

--2 Top 10 users reviewed most business under 'Restaurants'

```
select r.user_id,count(distinct r.business_id)

from tbl_yelp_reviews r

inner join tbl_yelp_business b on r.business_id = b.business_id

where b.categories ilike '%restaurants%'

group by 1

order by 2 desc

limit 10
```

	A USER_ID	# COUNT(DISTINCT R.BUSINESS_ID)
1	-G7Zkl1wIWBBmD0KRy_sCw	1202
2	_BcWyKQL16ndpBdggh2kNA	1166
3	fr1Hz2acAb3OaL3l6DyKNg	1058
4	1HM81n6n4iPIFU5d2Lokhw	1009
5	Xw7ZjaGfr0WNVt6s_5KZfA	926
6	ET8n-r7glWYqZhuR6GcdNw	891
7	nnu3RbKslnzfh5DxxmnMew	849

--3 Most popular categories of business (based on the number of reviews)

with cte as(

select business_id,trim(A.value) as Category

from tbl_yelp_business

,lateral split_to_table(categories,',')A

)

select category,count(*)as no_of_reviews

from cte

inner join tbl_yelp_reviews r on cte.business_id=r.business_id

group by 1

order by 2 desc

	A CATEGORY	# NO_OF_REVIEWS
1	Restaurants	4724471
2	Food	1813593
3	Nightlife	1539757
4	Bars	1455553
5	American (Traditional)	1011646
6	American (New)	984540
7	Breakfast & Brunch	867430

--4 Top 3 recent reviews for each business

with cte as (

select r.*, b.name,row_number() over(partition by r.business_id order by review_date desc) as rn

```

from tbl_yelp_reviews r

inner join tbl_yelp_business b on r.business_id = b.business_id

)

select * from cte

where rn<=3

```

	BUSINESS_ID	REVIEW_DATE	USER_ID	# REVIEW_STARS	REVIEW_TEXT	SENTIMENTS
1	_uyLoz0BbrQIVmUEmtd1Q	2018-12-19	zod4rsJCDfswrsqDanB_Q	4	If only we found this place sooner. My wife and I were lookin	Positive
2	_uyLoz0BbrQIVmUEmtd1Q	2018-10-29	UIZWVGC7mPzm78PMTNpW	1	Absolutely awful. Our Spanikopita appetizer was burned on	Negative
3	_uyLoz0BbrQIVmUEmtd1Q	2018-06-09	c35f8FumQy5045zFblir6w	3	My husband had the 6 oz pepperloin meal and was very hap	Positive
4	-vg05lwbbxAp_7bHI1_1Hg	2022-01-06	F86MNoGLE2CCYX0s6kPN7	1	This revele is for the Tarpon Springs location on US 19 plaza	Positive
5	-vg05lwbbxAp_7bHI1_1Hg	2022-01-03	ssJhiyNqD3Lg78TC35GLNq	1	Spectrum strikes again! This horrible company sent me to co	Positive
6	-vg05lwbbxAp_7bHI1_1Hg	2021-12-23	GEu90TrQZrwS4TahDxASyw	3	This is for the Clearwater location at Countryside Westfield N	Positive
7	hHz9j7ovxcnNxUX7r83v2A	2021-05-24	g8ekWKzZ0mBI9J5aKrFURQ	2	Need more than one person checking out very long line. I onl	Positive
8	hHz9j7ovxcnNxUX7r83v2A	2017-07-31	5fxwfGw_C_G000D478eVya	5	Came here to buy some donation items and was very impres	Positive

--5 Month with highest number of reviews.

```

select month(review_date)as review_month,count(*) as no_of_reviews

from tbl_yelp_reviews

group by 1

order by 2 desc

```

	# REVIEW_MONTH	# NO_OF_REVIEWS
1	7	654627
2	8	636384
3	1	604532
4	6	601737
5	3	598555
6	5	586575
7	10	571809
8	9	565374
9	4	551471

--6 Percentage of 5 star reviews in each business category

```

select b.business_id, b.name,count(*) as total_reviews

,sum(case when r.review_stars=5 then 1 else 0 end)as star5_reviews

```

```
, star5_reviews*100/total_reviews as percent_5_star

from tbl_yelp_reviews r

inner join tbl_yelp_business b on r.business_id=b.business_id

group by 1,2
```

	BUSINESS_ID	NAME	TOTAL_REVIEWS	STARS_REVIEWS	PERCENT_5_STAR
1	Bc3C4rM1TVZTJzKEN6REtQ	Bertha Miranda's Mexican Food Restaurant and Cantina	454	202	44.493392
2	QCaidu0NAS_sseca_xs4hQ	Walden's Coffeehouse	415	227	54.698795
3	rx4fcNjuqoaEugMPq5PBfw	Gabby's Burgers	536	322	60.074627
4	Fyw7Nszsz2E6ZKy7gJPtDw	The Garden Table	690	391	56.666667
5	1b7BC3Svafo615FSSw1gKg	Mint Hair Studio	55	39	70.909091
6	V2xSuNLZb6QAb7GdNkl3rg	The Frog Pond	978	656	67.075665
7	3C0qPoUjKgHuBQGgvgOYYw	US Post Office	35	4	11.428571
8	LdXB3D3gl3ckxZutLmen1g	Miso Hungry	279	127	45.519713
9	by2wRASwOKpCZU9KtZ3MHA	Manhattan Bagel	136	29	21.323529

--7 Top 5 most reviewd business in each city

```
with cte as(

select b.city,b.business_id,b.name,count(*) as total_reviews

from tbl_yelp_reviews r

inner join tbl_yelp_business b on r.business_id=b.business_id

group by 1,2,3

)

select *

from cte

qualify row_number() over(partition by city order by total_reviews desc) <=5
```

	📍 CITY	📍 BUSINESS_ID	📍 NAME	# TOTAL_REVIEWS
1	Chester	MWAZAdxaczj2i64jwv57g	Power Home Remodeling	895
2	Chester	D00oq_GL2RzcSIHh2QLP3A	Harrah's Philadelphia Casino & Racetrack	182
3	Chester	6wpBGLsJaaox7ab4wrGXL A	Guy Fieri's Philly Kitchen + Bar	133
4	Chester	_tXAxy9neZ5_UgmKcJaA	Subaru Park	101
5	Chester	Jw-ENQw-OGGwpM3nA3yww	Best Western Plus Philadelphia Airport South	53
6	Bridgeport	aV_K2q158ZTIUdUgOnLTyg	Puddlers Kitchen & Tap- Conshohocken Brewing	214
7	Bridgeport	9Uczm0SLoHhopacyKf3-1g	Taphouse 23	212
8	Bridgeport	uvtfWc5tPuyE_78trC_6w	Franzone's Pizzeria & Restaurant	192
9	Bridgeport	ncxN9ll-MeXRudUrE3GVsA	Bridgeport Rib House	140

--8 Avg rating of business that have least 100 reviews.

```

select b.business_id, b.name,count(*) as total_reviews
,avg(review_stars)as avg_rating
from tbl_yelp_reviews r
inner join tbl_yelp_business b on r.business_id=b.business_id
group by 1,2
having count(*)>=100

```

	📍 BUSINESS_ID	📍 NAME	# TOTAL_REVIEWS	# AVG_RATING
1	Bc3C4rM1TVZTJzKEN6REtQ	Bertha Miranda's Mexican Food Restaurant and Cantina	454	3.748899
2	QCaiduONAS_sscca_xe4hQ	Walden's Coffeehouse	415	4.089157
3	V2xSuNLZb6QAab7GdNkI3rg	The Frog Pond	978	4.451943
4	Fyw7Nsasz2E6ZKy7gjPtDw	The Garden Table	690	4.336232
5	rx4fcNjuqoaEugMPq5PBfw	Gabby's Burgers	536	4.376866
6	by2wRASwOKpCZU9KtZ3MHA	Manhattan Bagel	136	3.095588
7	l_sAh-yImQwCQmqRmXox8g	Monsi	316	4.224684
8	QG3BblZrMRGXniYSyYCP7A	AMC Veterans 24	117	3.752137
9	x_YfQUi2yoLaWNVU4czO4Q	DoubleTree by Hilton Hotel Nashville Downtown	271	2.826568

--9 Top 10 users who have written most reviews, along with the business they reviewed

```

with cte as(
select r.user_id,count(*) as total_reviews
from tbl_yelp_reviews r
inner join tbl_yelp_business b on r.business_id=b.business_id

```

group by 1

order by 2 desc

limit 10

)

select user_id,business_id

from tbl_yelp_reviews where user_id in (select user_id from cte)

group by 1,2

order by user_id

	USER_ID	BUSINESS_ID
1	-G7Zk11wIWBbmD0KRy_sCw	UKDDDD0IGHRchvvuDWsoYLw
2	-G7Zk11wIWBbmD0KRy_sCw	tm94_vqmMMeAv01L-7FJzQ
3	-G7Zk11wIWBbmD0KRy_sCw	t81dPFSGJz1ZuaLoP0vp9w
4	-G7Zk11wIWBbmD0KRy_sCw	iUhLGy41VYrLVAhJFH4x_w
5	-G7Zk11wIWBbmD0KRy_sCw	kWHawNFXosP5KsQyM062Gw
6	-G7Zk11wIWBbmD0KRy_sCw	kX_N3ou65OslRYIDMTBHEQ
7	-G7Zk11wIWBbmD0KRy_sCw	O3Gsne_JJ24yMvLrDoNjqA
8	-G7Zk11wIWBbmD0KRy_sCw	E2-VXp6Jc29s4EHLrBtkoA
9	-G7Zk11wIWBbmD0KRy_sCw	zkUHHsE-ktfrNihL6CXalQ

--10 Top 10 business with highest positive sentiment reviews

select r.business_id,b.name,count(*) as total_reviews

from tbl_yelp_reviews r

inner join tbl_yelp_business b on r.business_id=b.business_id

where sentiments = 'Positive'

group by 1,2

order by 3 desc

limit 10

	 BUSINESS_ID	 NAME	 TOTAL_REVIEWS
1	_ab50qdw0k0DdB6XOrBitw	Acme Oyster House	7558
2	ac1AeYqs8Z4_e2X5M3If2A	Oceana Grill	7349
3	GXFMD0Z4jEVZBCsbPf4CTQ	Hattie B's Hot Chicken - Nashville	5972
4	ytyngOUb3hjKeJfRj5Tshw	Reading Terminal Market	5739
5	oBNrLz4EDhiscSlbQl8uAw	Ruby Slipper - New Orleans	5148
6	ISRTaT9WngzB8JJ2YKJUig	Mother's Restaurant	4916
7	_C7QlIQc47AOEv4PE3Kong	Commander's Palace	4911
8	VQcCL9PINL_wkGf-uF3fjg	Royal House	4883
9	GBTPC53ZrG1ZBY3DT8Mbcw	Luke	4587