# --Check the number of unique apps in both tables of Applestore SELECT COUNT(distinct id) AS Unique\_app\_ids from AppleStore

■ Results	■ Messages	
U	nique_app_i	ds
1 7	197	

# **SELECT COUNT**(distinct id) AS Unique\_app\_ids from description

⊞ R	esults		Messages	
	Uı	niq	ue_app_i	ds
1	1 7			

# --Check for any missing values in key fields

### **SELECT COUNT(\*) AS MissingValues from AppleStore**

where track\_name is null or user\_rating\_ver is null or prime\_genre is null

■R	esults		Messages	
	M.	iss	ingValue	es
1	0			

#### **SELECT COUNT(\*) AS MissingValues from description**

#### where app\_desc is null

⊞ Re	esults		Messages	
	M-	iss	ingValue	es
1	0			

# --Get an Overview of the app's ratings

**SELECT Min**(user\_rating) **AS MinRating**,

Max(user rating) AS MaxRating,

Avg(user\_rating) AS AvgRating

### from AppleStore

⊞ Re	sults	■ Message	es	
	M:	inRating	MaxRating	AvgRating
1	0		5	3.5269556759761

#### -- Determine whether paid apps have better rating than free apps

SELECT CASE WHEN price > 0 THEN 'paid' ELSE 'free' END AS App\_Type,

AVG(user\_rating) AS Avg\_Rating

**FROM AppleStore** 

**GROUP BY CASE WHEN price > 0 THEN 'paid' ELSE 'free' END** 

⊞ Re	esults	Messag	ges
	A	pp_Type	Avg_Rating
1	р	aid	3.72094874243871
2	f	ree	3.3767258382643

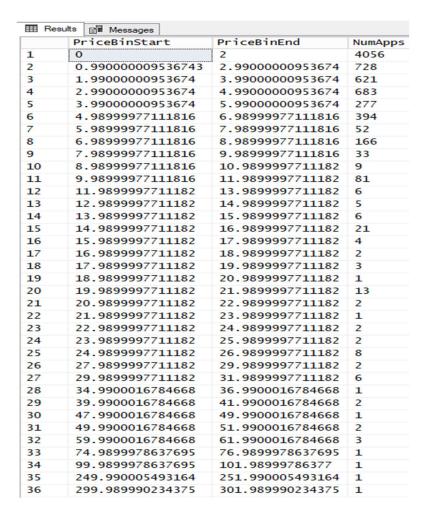
# --Find out the number of apps per genre

# SELECT prime\_genre,COUNT(\*) AS NumApps from AppleStore group by prime\_genre order by NumApps DESC

an inc	sults Messages prime_genre	NumApps
1	Games	3862
2	Entertainment	535
3	Education	453
4	Photo & Video	349
5	Utilities	248
6	Health & Fitness	180
7	Productivity	178
8	Social Networ	167
9	Lifestyle	144
10	Music	138
11	Shopping	122
12	Sports	114
13	Book	112
14	Finance	104
15	Travel	81
16	News	75
17	Weather	72
18	Reference	64
19	Food & Drink	63
20	Business	57
21	Navigation	46
22	Medical	23
23	Catalogs	10

# --Get the distribution of app prices

SELECT (price / 2) \* 2 AS PriceBinStart, ((price / 2) \* 2) + 2 AS PriceBinEnd, COUNT(\*) AS NumApps FROM AppleStore GROUP BY (price / 2) \* 2 ORDER BY (price / 2) \* 2



# --Check if app with more language support have higher ratings

#### **SELECT CASE**

WHEN lang num < 10 then '<10 languages'

WHEN lang num between 10 and 30 then '10-30 languages'

ELSE '>30 languages' END as languages\_bucket,

AVG(user\_rating) as Avg\_Rating

**FROM AppleStore** 

group by CASE

WHEN lang\_num < 10 then '<10 languages'

WHEN lang num between 10 and 30 then '10-30 languages'

**ELSE** '>30 languages' END

order by Avg\_Rating DESC

Ⅲ Re	sults Messages	
	languages_bucket	Avg_Rating
1	10-30 languages	4.13051209103841
2	>30 languages	3.777777777778
3	<10 languages	3.36832740213523

### --Check genres with low ratings

select top(10) prime\_genre,AVG(user\_rating) as Avg\_Rating from AppleStore group by prime\_genre order by Avg\_Rating ASC

Ⅲ Re	sults Messages	
	prime_genre	Avg_Rating
1	Catalogs	2.1
2	Finance	2.43269230769231
3	Book	2.47767857142857
4	Navigation	2.68478260869565
5	Lifestyle	2.805555555556
6	News	2.98
7	Sports	2.98245614035088
8	Social Networkin	g 2.98502994011976
9	Food & Drink	3.18253968253968
10	Entertainment	3.24672897196262

# -- Check if there is correlation between the length of description and the user rating

#### **SELECT** case

when len(d.app\_desc) < 500 then 'Short'
when len(d.app\_desc) between 500 and 1000 then 'Medium'
Else 'Long'
End as descripion\_length\_bucket,
AVG(user\_rating) as Avg\_Rating
FROM AppleStore as a
join description as d on a.id = d.id
group by case
when len(d.app\_desc) < 500 then 'Short'
when len(d.app\_desc) between 500 and 1000 then 'Medium'

order by Avg\_Rating DESC

**Else 'Long' End** 

⊞ Re	esults Messages	
	descripion_length_bucket	Avg_Rating
1	Long	3.85594694498804
2	Medium	3.2328094302554
3	Short	2.53361344537815

# -- Check top-rated app for each genre

#### select

prime\_genre,
track\_name,
user\_rating
from(

select

prime\_genre, track\_name, user\_rating,

RANK() over(partition by prime\_genre order by user\_rating desc,rating\_count\_tot DESC) AS rank

# **from AppleStore**

)as a

#### where a.rank = 1

	prime_genre	track_name	user_rating
1	Book	Color Therapy Adult Coloring Book for Adults	5
2	Business	TurboScan™ Pro - document & receipt scanner: sc	5
3	Catalogs	CPlus for Craigslist app - mobile classifieds	5
4	Education	Elevate - Brain Training and Games	5
5	Entertainment	Bruh-Button	5
6	Finance	Credit Karma: Free Credit Scores, Reports & Alerts	5
7	Food & Drink	Domino's Pizza USA	5
8	Games	Head Soccer	5
9	Health & Fitness	Yoga Studio	5
10	Lifestyle	ipsy - Makeup, subscription and beauty tips	5
11	Medical	Blink Health	5
12	Music	Tenuto	5
13	Navigation	parkOmator - for Apple Watch meter expiration t	5
14	News	The Guardian	5
15	Photo & Video	Pic Collage - Picture Editor & Photo Collage Maker	5
16	Productivity	VPN Proxy Master - Unlimited WiFi security VPN	5
17	Reference	Sky Guide: View Stars Night or Day	5
18	Shopping	Zappos: shop shoes & clothes, fast free shipping	5
19	Social Networ	We Heart It - Fashion, wallpapers, quotes, tattoos	5
20	Sports	J23 - Jordan Release Dates and History	5
21	Travel	Urlaubspiraten	5
22	Utilities	Flashlight ©	5
23	Weather	NOAA Hi-Def Radar Pro - Storm Warnings, Hurric	5