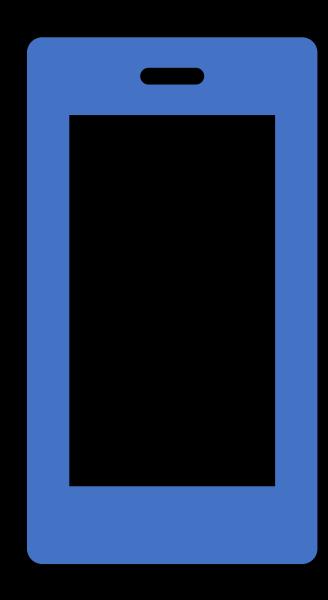
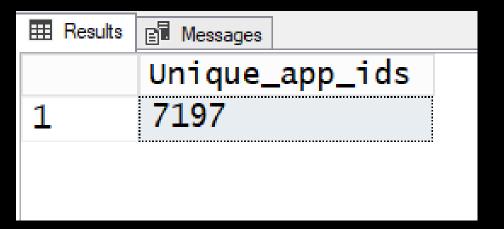
Used MSSQL





Check the number of unique apps in both tables of Apple store



SELECT COUNT(distinct id) AS Unique_app_ids from AppleStore

SELECT COUNT(distinct id) AS Unique_app_ids from description

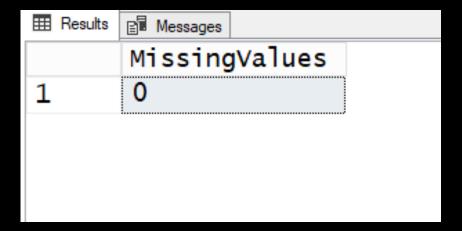
■ Results	E Messages
	Unique_app_ids
1	7197
	······································

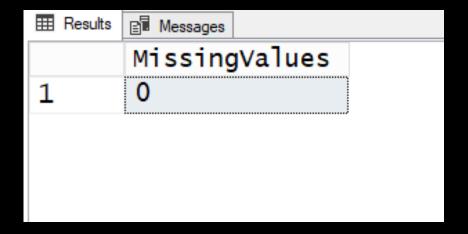
Check for any missing values in key fields

SELECT COUNT(*) AS MissingValues from AppleStore

where track_name is null or user_rating_ver is
null or prime_genre is null

SELECT COUNT(*) AS MissingValues from description where app_desc is null





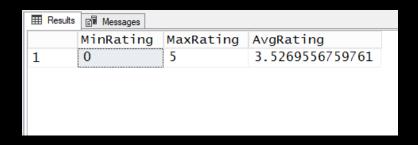
Find out the number of apps per genre

SELECT prime_genre,COUNT(*) AS
NumApps from AppleStore
group by prime_genre
order by NumApps DESC

⊞ Results ☐ 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 Networking	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 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



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

⊞ Results					
	PriceBinStart	PriceBinEnd	NumApps		
1	0	2	4056		
2	0.990000009536743	2.99000000953674	728		
3	1.99000000953674	3.99000000953674	621		
4	2.99000000953674	4.99000000953674	683		
5	3.99000000953674	5.99000000953674	277		
6	4.98999977111816	6.98999977111816	394		
7	5.98999977111816	7.98999977111816	52		
8	6.98999977111816	8.98999977111816	166		
9	7.98999977111816	9.98999977111816	33		
10	8.98999977111816	10.9899997711182	9		
11	9.98999977111816	11.9899997711182	81		
12	11.9899997711182	13.9899997711182	6		
13	12.9899997711182	14.9899997711182	5		
14	13.9899997711182	15.9899997711182	6		
15	14.9899997711182	16.9899997711182	21		
16	15.9899997711182	17.9899997711182	4		
17	16.9899997711182	18.9899997711182	2		
18	17.9899997711182	19.9899997711182	3		
19	18.9899997711182	20.9899997711182	1		
20	19.9899997711182	21.9899997711182	13		
21	20.9899997711182	22.9899997711182	2		
22	21.9899997711182	23.9899997711182	1		
23	22.9899997711182	24.9899997711182	2		
24	23.9899997711182	25.9899997711182	2		
25	24.9899997711182	26.9899997711182	8		
26	27.9899997711182	29.9899997711182	2		
27	29.9899997711182	31.9899997711182	6		
28	34.9900016784668	36.9900016784668	1		
29	39.9900016784668	41.9900016784668	2		
30	47.9900016784668	49.9900016784668	1		
31	49.9900016784668	51.9900016784668	2		
32	59.9900016784668	61.9900016784668	3		
33	74.9899978637695	76.9899978637695	1		
34	99.9899978637695	101.98999786377	1		
35	249.990005493164	251.990005493164	1		
36	299.989990234375	301.989990234375	1		

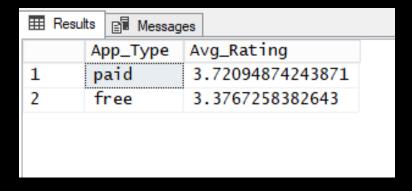
Determine whether paid apps have a better rating than free apps

```
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;



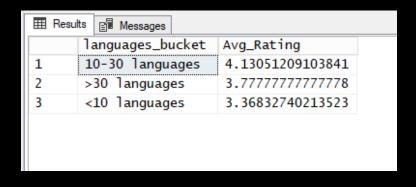
Check genres with low ratings

```
select top(10)
prime_genre,AVG(user_rating) as
Avg_Rating
from AppleStore
group by prime_genre
order by Avg_Rating ASC
```

■ Results				
	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 Networking	2.98502994011976		
9	Food & Drink	3.18253968253968		
10	Entertainment	3.24672897196262		

Check if apps 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
```



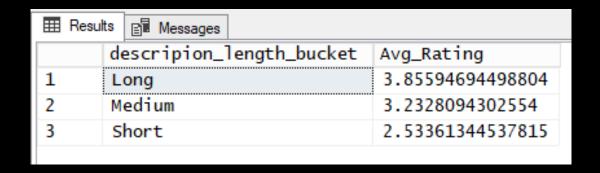
Check if there is correlation between the length of description and the user rating

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' Else 'Long' End

order by Avg_Rating DESC



Check the top-rated apps 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

Ⅲ Resul	⊞ Results □ Messages			
	prime_genre	track_name	user_rati	
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	

Insights

Paid apps have better ratings

Apps supporting between 10 and 30 languages have better ratings

Finance and books apps have low ratings

Apps with a longer description have better ratings

A new app should aim for an average rating above 3.5

Games and entertainment have higher competition

