--Check the number of unique apps in both tables of Applestore SELECT COUNT(distinct id) AS Unique_app_ids from AppleStore

⊞ Re	sults		Messages	
	Uı	niqu	re_app_	ids
1	7	197		

SELECT COUNT(distinct id) AS Unique_app_ids from description

⊞ Re	sults		Messages	
	U	niq	ue_app_	ids
1 7		197		

--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.	issingValues	
1	0		

SELECT COUNT(*) AS MissingValues from description

where app_desc is null

⊞ R	esults		Messages	
	M:	iss	ingValue	25
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

- 1				
	⊞ Results	Message	s	
	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

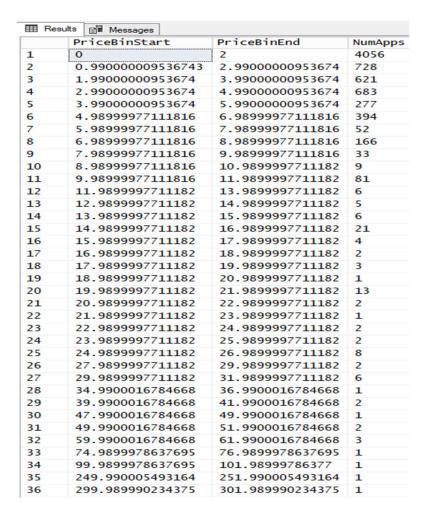
--Find out the number of apps per genre

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 Networking	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	sults 🗐 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

Insights

- ----1. Paid apps have better ratings
- ----2. Apps supporting between 10 and 30 languages have better ratings
- ----3. Finance and books apps have low ratings
- ----4. Apps with a longer description have better ratings
- ----5. A new app should aim for an average rating above 3.5
- ----6. Games and entertainment have higher competition