-- Check for missing values in key fields of the table

```
17
18 -- Check for missing values in key fields of the table
19 SELECT COUNT(*) AS MissingValues
20 FROM AppleStore
21 WHERE ID IS NULL OR user_rating IS NULL OR track_name IS NULL OR prime_genre IS NULL;
22
23 SELECT COUNT(*) AS MissingValues
24 FROM applestore_description_combined
25 WHERE ID IS NULL OR track_name IS NULL OR app_desc IS NULL;

i MissingValues

0
```

Check the no of unique apps in both the tables

```
10
11 -- Check the number of unique apps in both the tables
12 SELECT COUNT(DISTINCT ID) AS UniqueAppIDs
13 FROM AppleStore;
14
15 SELECT COUNT(DISTINCT ID) AS UniqueAppIDs
16 FROM applestore_description_combined;
17

i UniqueAppIDs
7197
```

No missing values and no data quality issues in both the tables.

-- Get an overview of the apps ratings

```
36
37 -- Get an overview of the apps ratings
38 SELECT MIN(user_rating) AS MinRating,
39 MAX(user_rating) AS MaxRating,
40 AVG(user_rating) AS AvgRating
41 FROM AppleStore;

i MinRating MaxRating AvgRating

0 5 3.526955675976101
```

Minimum Rating is 0

Maximum Rating is 5

Average Rating is 3.52

## -- Find out the number of apps per genre

```
28
29 -- Find out the number of apps per genre
30 SELECT prime genre, COUNT(*) AS No_of_apps
31 FROM AppleStore
32 GROUP BY prime_genre
33 ORDER BY No_of_apps DESC;

i prime_genre No_of_apps

Games 3862

Entertainment 535

Education 453

Photo & Video 349

Utilities 248

Health & Fitness 180

Productivity 178

Social Networking 167

Lifestyle 144

Music 138

Shopping 122
```

Games and Entertainment genres are clearly leading with a huge number of apps.

## --Check the top-rated apps for each genre

: prime_genre	track_name	user_rating
Finance	Credit Karma: Free Credit Scores, Reports & Alerts	5
Food & Drink	Domino's Pizza USA	5
Games	Head Soccer	5
Health & Fitness	Yoga Studio	5
Lifestyle	ipsy - Makeup, subscription and beauty tips	5

: prime_genre	track_name	user_rating
Medical	Blink Health	5
Music		5
Navigation	parkOmator – for Apple Watch meter expiration timer, notificati	5
News		5
Photo & Video	Pic Collage - Picture Editor & Photo Collage Maker	5

: prime_genre	track_name	user_rating
Productivity	VPN Proxy Master - Unlimited WiFi security VPN	
Reference	Sky Guide: View Stars Night or Day	
Shopping	Zappos: shop shoes & clothes, fast free shipping	
Social Networking	We Heart It - Fashion, wallpapers, quotes, tattoos	
	J23 - Jordan Release Dates and History	

: prime_genre	track_name	user_rating
Travel	Urlaubspiraten	5
Utilities	Flashlight	5
Weather	NOAA Hi-Def Radar Pro - Storm Warnings, Hurricane Tracker	5

-- Determine whether paid apps have a higher rating than free apps

```
-- Determine whether paid apps have a higher rating than free apps

44 SELECT

45 CASE

46 WHEN price > 0 THEN 'Paid'

47 ELSE 'Free'

48 END AS app_type,

49 AVG(user_rating) AS Avg_rating

50 FROM AppleStore

51 GROUP BY app_type;

52

i app_type

Avg_rating

Free

3.3767258382642997

Paid

3.720948742438714
```

Rating of paid apps is slightly higher compared to free apps.

-- Check if apps with more support languages have higher ratings

Apps with a moderate range of language support (10-30) have received higher ratings compared to those with either more extensive (>30 languages) or more limited support (<10 languages).

## -- Check genres with low ratings

Developers have a great chance for success by creating quality apps in these categories.

-- Check if there is a correlation between the length of app description and user ratings

```
-- Check if there is a correlation between the length of app description and user ratings

SELECT

MEN CASE

MHEN LENGTH(B.app_desc) < 300 THEN 'Short'

WHEN LENGTH(B.app_desc) BETWEEN 500 AND 1000 THEN 'Medium'

ELSE 'Long'

END AS description length_bucket,

AVG(user_rating) AS Avg_rating

Applestore AS A

JOIN

applestore_description_combined AS B

No

A.id = B.id

GROUP BY description_length_bucket

AVG_rating

Long

Avg_rating

Avg_rating

Medium

3.2344804318488527

Short

2.3799582463465554
```

The length of app descriptions appears to be correlated with user ratings, with longer descriptions being associated with higher ratings. Developers may consider providing more detailed and informative descriptions to potentially enhance user satisfaction and ratings.