```
CREATE TABLE AppleStore_description as

SELECT * from appleStore_description1
UNION ALL
SELECT * from appleStore_description2
UNION ALL
SELECT * from appleStore_description3
UNION ALL
SELECT * from appleStore_description4;

**EXPLORATORY DATA ANALYSIS**
```

-- check the number of unique apps in both tables

```
SELECT
count(DISTINCT c1) as UniqueAppleIDs
FROM AppleStore;

SELECT
count(DISTINCT c1) as UniqueAppleIDs
FROM AppleStore_Description;

SELECT
count(*) as Missing_Values
FROM AppleStore
WHERE
track_name is null
or
user_rating is null
or
```

prime\_genre is NULL;

```
SELECT
     count(*) as Missing Values
FROM AppleStore description
WHERE app desc is null
-- Find the number of apps per genre
SELECT
     prime_genre,
     count(*) as NumApps
FROM AppleStore
GROUP BY prime_genre
ORDER BY NumApps DESC
-- Get an overview of apps' ratings
SELECT
     min(user rating) as MinRating,
     max(user_rating) as MaxRating,
     avg(user rating) as AvgRating
FROM AppleStore
**DATA ANALYSIS**
-- Determine whether paid apps have higher average than free apps
SELECT
     CASE
          WHEN price>0 then "Paid"
          ELSE "Free"
      END as App_Type,
      avg(user_rating) as AvgRating
FROM AppleStore
GROUP BY App Type;
```

## -- Check if apps with more supported languages 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 language bucket,
  AVG(user rating) AS Avg Rating
FROM AppleStore
GROUP BY language bucket
ORDER BY Avg Rating DESC;
-- Check genres with low rating
SELECT prime genre,
          avg(user rating) as Avg Rating
FROM AppleStore
GROUP BY prime genre
ORDER BY Avg_Rating ASC
LIMIT 1;
-- Check if there is a correlation between the length of the app
description and the user rating.
SELECT
     CASE
          WHEN length(b.app desc)<500 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
FROM
```

```
AppleStore as a
JOIN
 AppleStore Description as b
ON
     a.id=b.id
GROUP BY description length bucket
ORDER BY Avg Rating DESC
--Check the top-rated apps for each genreAppleStore
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;
```

## \*\*RECOMMENDATIONS\*\*

 Paid Apps generally get slightly higher ratings than free counterparts; it could be because users that pay perceive the app to be of higher value leading to better ratings. If client believes the product is valuable, they should consider charging for it.

- Found that Apps supporting between 10 and 30 languages had the highest average rating; it is not about the quantity of languages the app supports but about focusing on the right languages.
- Finance and Book Apps have low user ratings; it could be because user needs are not being met. It could present a market opportunity if client can meet these needs.
- Length of app descriptions has a positive correlation with user ratings; Users appreciate having detailed explainations of apps they to download.
- A new App should aim for an average rating above 3.5.
- Games and Entertainment genres are saturated; entering this space could be challenging but there is high user demand in these sectors.