Audible dataset cleaning

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1, Created the table
CREATE TABLE audible
(
       NAME VARCHAR(300),
       author VARCHAR(200),
       narrator VARCHAR(200),
       time VARCHAR(80),
       releasedate DATE,
       language VARCHAR(150),
       stars VARCHAR(100),
       price VARCHAR(40)
)
2, updated all not rated yet columns to 0 stars
UPDATE audible
SET stars = 0.0
WHERE stars = 'Not rated yet'
3, added (number of ratings) column into dataset
ALTER TABLE audible
ADD COLUMN ratings VARCHAR(10);
UPDATE audible
SET ratings = CASE
                               WHEN stars ILIKE '%rating' THEN SUBSTRING(stars, POSITION('stars'
IN stars) + 5, (POSITION('rating' IN stars)-1) - (POSITION('stars' IN stars) + 5))
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POSITION('stars' IN stars) + 5, (POSITION('ratings' IN stars)-1) - (POSITION('stars' IN stars) + 5))
ELSE '0.0'
END
4, before converting it into integer first replace the ',' (comma) with empty string eg 2,343 to 234
UPDATE audible
SET ratings = REPLACE(ratings, ',', '')
5, CHANGE DATA TYPE using ALTER TABLE ,ALTER COLUMN
ALTER TABLE audible
ALTER COLUMN ratings SET DATA TYPE INTEGER USING ratings::INTEGER
6, Changed price field where it was free in price column
UPDATE audible
SET price = 0
WHERE price = 'Free'
7, again replaced commas in varchar for price column
UPDATE audible
SET price = REPLACE(price, ',', '')
8, changed data type from character to Decimal in price column using following because it has some values with cents.
ALTER TABLE audible

ALTER COLUMN price SET DATA TYPE DECIMAL(10,4) USING price::DECIMAL(10,4)

9, updated stars info to only give actual stars removing all unnecessary info
UPDATE audible
SET stars = LEFT(stars , POSITION('out of' IN stars) - 2)
10, changed data type to decimal for stars
ALTER TABLE audible
ALTER COLUMN stars SET DATA TYPE DECIMAL(2,1) USING stars::DECIMAL(2,1)
11, Updated author column to remove Written by text
update audible
SET author = SUBSTRING(author, POSITION('by:' IN author)+3, LENGTH(author))
IMPORTANT !!, if you run update command twice you might lose some words from your data and that can create the mess, also it is advised to update data on copy of your dataset and don't run command twice even if your system lags and it didn't do it on the first go, just wait for some time before hitting the run button and other important advice BEFORE UPDATING CHECK WHAT IS THE OUTPUT OF YOUR CODE BY USING IT IN SELECT STATEMENT!!
ALSO creating dummy columns for reference can help avoiding errors!
12, SIMILARLY for narrator removed narrated by
update audible
SET narrator = SUBSTRING(narrator, POSITION('by:' IN narrator)+3, LENGTH(narrator))
U can always check results by using logic in SELECT statement eg,
SELECT SUBSTRING(narrator, POSITION('by:' IN narrator)+3, LENGTH(narrator)) FROM audible
13, added a column to extract hours only
ALTER TABLE audible

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14, extracted the hours in separate column
UPDATE audible
SET hours = CASE WHEN time ILIKE '%hr%' THEN LEFT(time, POSITION(' ' IN time)) ELSE '0' END
15, added mins column and then altered it coz format was not fitting in varchar(10), (later while
cleaning found there are some values like 'Less than 1 minute')
ALTER TABLE audible
SET mins DATA TYPE VARCHAR(30) USING mins::VARCHAR(30)
16, updated mins table
UPDATE audible
SET mins = CASE
                 WHEN time ILIKE '%and%' THEN SUBSTRING(time, POSITION('and 'IN time) + 4,
LENGTH(time))
                 WHEN time ILIKE '%hr' THEN '0'
           ELSE LEFT(time, POSITION('min' IN time)) END
17, removed empty cells using
update audible
SET mins = 0
WHERE mins = "
18, removed min or mins text from min column
update audible
SET mins = CASE WHEN mins ILIKE '%min%' THEN LEFT(mins, POSITION(' min' IN mins)) ELSE mins END
```

ADD COLUMN hours VARCHAR(10)

19, mins column nees to be trimmed
update audible
SET mins = TRIM(mins)
20, Updated the mins column to handle 'less than 1 minute' text
UPDATE audible
SET mins = '1'
WHERE mins ILIKE '%Less%
21, Altered data type of mins to smallint
ALTER TABLE audible
ALTER COLUMN mins SET DATA TYPE SMALLINT USING mins::SMALLINT
22, changed time column to show only mins instead of mix of hour and min data
UPDATE audible
SET time = hours*60 + mins
23, Changed data type to integer again for time column for comparison purposes
ALTER TABLE audible
ALTER COLUMN time SET DATA TYPE SMALLINT USING time::SMALLINT

24, DELETED the dummy columns that were created for reference like author_copy , hours , mins
ALTER TABLE audible
DROP COLUMN author_copy;
ALTER TABLE audible
DROP COLUMN hours;
ALTER TABLE audible
DROP COLUMN mins;

WE OBTAINED THE CLEAN DATASET THAT CAN BE USED FOR FURTHER ANALYSIS. THANK YOU!