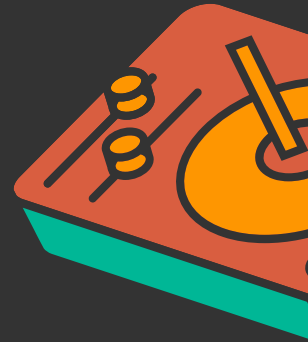


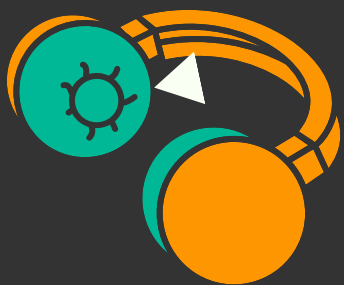
Audible DATA CLEANING Project



Sangeeta Rajput

presented by : Sangeeta Rajput



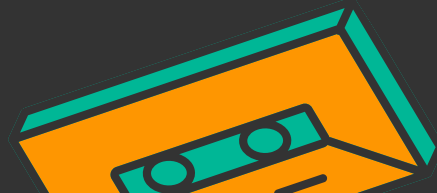


Introduction

Audible is an American online audiobook and podcast service that allows users to purchase and stream audiobooks and other forms of spoken word content. This content can be purchased individually or under a subscription model where the user receives "credits" that can be redeemed for content monthly and receive access to a curated on-demand library of content.



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UNCLEANED DATASET

A	B	C	D	E	F	G	H
	author	narrator	time	releasedate	language	stars	price
Stilton #11 & #12	Writtenby:GeronimoStilton	Narratedby:BillLobley	2 hrs and 20 mins	04-08-2008	English	5 out of 5 stars34 ratings	
ning Maze	Writtenby:RickRiordan	Narratedby:RobbieDaymond	13 hrs and 8 mins	01-05-2018	English	4.5 out of 5 stars41 ratings	
p End	Writtenby:JeffKinney	Narratedby:DanRussell	2 hrs and 3 mins	06-11-2020	English	4.5 out of 5 stars38 ratings	
er of the Deep	Writtenby:RickRiordan	Narratedby:SoneelaNankani	11 hrs and 16 mins	05-10-2021	English	4.5 out of 5 stars12 ratings	
ting Thief: Percy Jackson, Book 1	Writtenby:RickRiordan	Narratedby:JesseBernstein	10 hrs	13-01-2010	English	4.5 out of 5 stars181 rating	
ger Games: Special Edition	Writtenby:SuzanneCollins	Narratedby:TatianaMaslany	10 hrs and 35 mins	30-10-2018	English	5 out of 5 stars72 ratings	
or the Diamond Sword	Writtenby:WinterMorgan	Narratedby:LukeDaniels	2 hrs and 23 mins	25-11-2014	English	5 out of 5 stars11 ratings	
k Prophecy	Writtenby:RickRiordan	Narratedby:RobbieDaymond	12 hrs and 32 mins	02-05-2017	English	5 out of 5 stars50 ratings	
ission Collection	Writtenby:MaryPopeOsborne	Narratedby:MaryPopeOsborne	10 hrs and 56 mins	02-05-2017	English	5 out of 5 stars5 ratings	
nt&K's Tomb	Writtenby:RickRiordan	Narratedby:RobbieDaymond	13 hrs and 22 mins	24-09-2019	English	5 out of 5 stars58 ratings	
n's Curse: Percy Jackson, Book 3	Writtenby:RickRiordan	Narratedby:JesseBernstein	8 hrs and 48 mins	14-01-2010	English	4.5 out of 5 stars130 rating	
ree House Collection: Books 9-16	Writtenby:MaryPopeOsborne	Narratedby:MaryPopeOsborne	5 hrs and 23 mins	24-08-2011	English	5 out of 5 stars6 ratings	
ree House Collection: Books 1-8	Writtenby:MaryPopeOsborne	Narratedby:MaryPopeOsborne	6 hrs and 1 min	27-09-2011	English	5 out of 5 stars7 ratings	
Chase and the Ship of the Dead	Writtenby:RickRiordan	Narratedby:MichaelCrouch	12 hrs and 58 mins	03-10-2017	English	5 out of 5 stars41 ratings	
n Lights	Writtenby:PhilipPullman	Narratedby:PhilipPullman,fulcast,RuthWills	11 hrs and 55 mins	24-06-2021	English	4 out of 5 stars2 ratings	
o Stilton #13 and #14	Writtenby:GeronimoStilton	Narratedby:BillLobley	2 hrs and 25 mins	08-02-2008	English	4.5 out of 5 stars33 ratings	
ree House Collection	Writtenby:MaryPopeOsborne	Narratedby:MaryPopeOsborne	5 hrs and 4 mins	26-12-2004	English	5 out of 5 stars7 ratings	
	Writtenby:ShannonMessenger	Narratedby:CaitlinKelly	14 hrs and 41 mins	06-11-2018	English	5 out of 5 stars20 ratings	
ission Collection	Writtenby:MaryPopeOsborne	Narratedby:MaryPopeOsborne	10 hrs and 18 mins	02-05-2017	English	5 out of 5 stars11 ratings	
en	Writtenby:ShannonMessenger	Narratedby:CaitlinKelly	16 hrs and 42 mins	06-11-2018	English	5 out of 5 stars13 ratings	
ver of Nero	Writtenby:RickRiordan	Narratedby:RobbieDaymond	12 hrs and 12 mins	06-10-2020	English	5 out of 5 stars79 ratings	
the Inheritance Cycle, Book 2	Writtenby:ChristopherPaolini	Narratedby:GerrardDoyle	23 hrs and 29 mins	14-04-2009	English	4.5 out of 5 stars47 ratings	
Fowl	Writtenby:EoinColfer	Narratedby:GerryO'Brien	6 hrs and 46 mins	11-04-2013	English	5 out of 5 stars27 ratings	
o Stilton 22 & 24	Writtenby:GeronimoStilton	Narratedby:BillLobley	2 hrs and 37 mins	01-02-2011	English	4.5 out of 5 stars25 ratings	
ackson and the Battle of the Labyrinth	Writtenby:RickRiordan	Narratedby:JesseBernstein	10 hrs and 32 mins	21-01-2010	English	5 out of 5 stars101 ratings	
the-Pool	Writtenby:A.A.Milne	Narratedby:PeterDennis	2 hrs and 46 mins	28-12-2003	English	5 out of 5 stars15 ratings	
ree House Collection: Books 25-32	Writtenby:MaryPopeOsborne	Narratedby:MaryPopeOsborne	7 hrs and 9 mins	01-09-2020	English	5 out of 5 stars3 ratings	
o Stilton #20 and #21	Writtenby:GeronimoStilton	Narratedby:BillLobley	2 hrs and 32 mins	01-10-2010	English	5 out of 5 stars18 ratings	



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STEPS TAKEN TO REFINE DATA

APPLIED STEPS	
Source	✳
Promoted Headers	✳
Replaced Value1	✳
Changed Type	
Capitalized Each Word	
Extracted Text After Delimi...	✳
Trimmed Text	
Split Column by Delimiter	✳
Changed Type1	
Removed Columns	
Split Column by Character ...	
Merged Columns	✳
Trimmed Text1	
Split Column by Character ...	
Merged Columns1	✳
Split Column by Character ...	
Merged Columns2	✳
Trimmed Text2	

APPLIED STEPS	
Extracted Text After Delimi...	✳
Split Column by Delimiter1	✳
Changed Type2	
Split Column by Character ...	
Merged Columns3	✳
Split Column by Character ...	
Merged Columns4	✳
Trimmed Text3	
Split Column by Character ...	
Removed Columns1	
Merged Columns5	✳
Trimmed Text4	
Added Custom	✳
Reordered Columns	
Added Custom1	✳
Reordered Columns1	
Multiplied Column	✳
Inserted Addition	✳

APPLIED STEPS	
Reordered Columns1	
Multiplied Column	✳
Inserted Addition	✳
Reordered Columns2	
Renamed Columns	
Removed Columns2	
Split Column by Delimiter2	✳
Changed Type3	
Replaced Value	✳
Changed Type4	
Split Column by Character ...	
Removed Columns3	
Extracted Text Before Deli...	✳
Changed Type5	
Renamed Columns1	
Changed Type6	
Capitalized Each Word1	
✕ Inserted Merged Column	✳



TRANSFORMATION USING CUSTOM COLUMN

First, extracted “min” from the “time” column, then extracted “hour” converted them into minutes format, and summed both values.

Custom Column

Add a column that is computed from the other columns.

New column name

mins

Custom column formula ⓘ

```
= if Text.Contains([time], "minute") then 1  
else if Text.Contains([time], "min") and not Text.Contains([time], "and") then Number.FromText(Text.BeforeDelimiter([time], "min"))  
else if Text.Contains([time], "min") then  
Number.FromText(Text.BeforeDelimiter(Text.AfterDelimiter([time], "and"), " min"))  
else 0
```

Available columns

- Author-1 Full name
- Author-2 Full name
- Author-3 Full name
- Narrator-1 Full name
- Narrator-2 Full name
- Narrator-3 Full name
- time

<< Insert

Learn about Power Query formulas

✓ No syntax errors have been detected.

OK Cancel

Custom Column

Add a column that is computed from the other columns.

New column name

hrs

Custom column formula ⓘ

```
= if Text.Contains([time], "hr") then  
Number.FromText(Text.BeforeDelimiter([time], "hr"))  
else 0
```

Available columns

- name
- Author-1 Full name
- Author-2 Full name
- Author-3 Full name
- Narrator-1 Full name
- Narrator-2 Full name
- Narrator-3 Full name

<< Insert

Learn about Power Query formulas

✓ No syntax errors have been detected.

OK Cancel



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CLEANED DATASET

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	name	Author-1 Full name	Author-2 Full name	Author-3 Full name	Narrator-1 Full name	Narrator-2 Full name	Narrator-3 Full name	time	time(Standardized in min)	releasedate	language	rating	no of people rated	price	releaseinfo	
2	Geronimo Stilton #11 & #12	Geronimo Stilton			Bill Lobley			2 hrs and 20 mins	140	04-08-2008	English	5	34	468	04-08-2008, English	
3	The Burning Maze	Rick Riordan			Robbie Daymond			13 hrs and 8 mins	788	01-05-2018	English	4.5	41	820	01-05-2018, English	
4	The Deep End	Jeff Kinney			Dan Russell			2 hrs and 3 mins	123	06-11-2020	English	4.5	38	410	06-11-2020, English	
5	Daughter Of The Deep	Rick Riordan			Soneela Nankani			11 hrs and 16 mins	676	05-10-2021	English	4.5	12	615	05-10-2021, English	
6	The Lightning Thief: Percy Jackson	Rick Riordan			Jesse Bernstein			10 hrs	600	13-01-2010	English	4.5	181	820	13-01-2010, English	
7	The Hunger Games: Special Edition	Suzanne Collins			Tatiana Maslany			10 hrs and 35 mins	635	30-10-2018	English	5	72	656	30-10-2018, English	
8	Quest For The Diamond Sword	Winter Morgan			Luke Daniels			2 hrs and 23 mins	143	25-11-2014	English	5	11	233	25-11-2014, English	
9	The Dark Prophecy	Rick Riordan			Robbie Daymond			12 hrs and 32 mins	752	02-05-2017	English	5	50	820	02-05-2017, English	
10	Merlin Mission Collection	Mary Pope Osborne			Mary Pope Osborne			10 hrs and 56 mins	656	02-05-2017	English	5	5	1256	02-05-2017, English	
11	The Tyrant&€™s Tomb	Rick Riordan			Robbie Daymond			13 hrs and 22 mins	802	24-09-2019	English	5	58	820	24-09-2019, English	
12	The Titan's Curse: Percy Jackson	Rick Riordan			Jesse Bernstein			8 hrs and 48 mins	528	14-01-2010	English	4.5	130	820	14-01-2010, English	
13	Magic Tree House Collection: Book	Mary Pope Osborne			Mary Pope Osborne			5 hrs and 23 mins	323	24-08-2011	English	5	6	1206	24-08-2011, English	
14	Magic Tree House Collection: Book	Mary Pope Osborne			Mary Pope Osborne			6 hrs and 1 min	361	27-09-2011	English	5	7	1206	27-09-2011, English	
15	Magnus Chase And The Ship Of The	Rick Riordan			Michael Crouch			12 hrs and 58 mins	778	03-10-2017	English	5	41	820	03-10-2017, English	
16	Northern Lights	Philip Pullman			Philip Pullman	fullcast	Ruth Wilson	11 hrs and 55 mins	715	24-06-2021	English	4	2	1093	24-06-2021, English	
17	Geronimo Stilton #13 And #14	Geronimo Stilton			Bill Lobley			2 hrs and 25 mins	145	08-02-2008	English	4.5	33	467	08-02-2008, English	
18	Magic Tree House Collection	Mary Pope Osborne			Mary Pope Osborne			5 hrs and 4 mins	304	26-12-2004	English	5	7	1206	26-12-2004, English	
19	Exile	Shannon Messenger			Caitlin Kelly			14 hrs and 41 mins	881	06-11-2018	English	5	20	836	06-11-2018, English	
20	Merlin Mission Collection	Mary Pope Osborne			Mary Pope Osborne			10 hrs and 18 mins	618	02-05-2017	English	5	11	1256	02-05-2017, English	
21	Neverseen	Shannon Messenger			Caitlin Kelly			16 hrs and 42 mins	1002	06-11-2018	English	5	13	1003	06-11-2018, English	
22	The Tower Of Nero	Rick Riordan			Robbie Daymond			12 hrs and 12 mins	732	06-10-2020	English	5	79	615	06-10-2020, English	
23	Eldest: The Inheritance Cycle, Book	Christopher Paolini			Gerrard Doyle			23 hrs and 29 mins	1409	14-04-2009	English	4.5	47	957	14-04-2009, English	
24	Artemis Fowl	Eoin Colfer			Gerry O'Brien			6 hrs and 46 mins	406	11-04-2013	English	5	27	683	11-04-2013, English	
25	Geronimo Stilton 22 & 24	Geronimo Stilton			Bill Lobley			2 hrs and 37 mins	157	01-02-2011	English	4.5	25	469	01-02-2011, English	
26	Percy Jackson And The Battle Of The	Rick Riordan			Jesse Bernstein			10 hrs and 32 mins	632	21-01-2010	English	5	101	820	21-01-2010, English	
27	Winnie-The-Pooh	A.A.Milne			Peter Dennis			2 hrs and 46 mins	166	28-12-2003	English	5	15	468	28-12-2003, English	
28	Magic Tree House Collection: Book	Mary Pope Osborne			Mary Pope Osborne			7 hrs and 9 mins	429	01-09-2020	English	5	3	1256	01-09-2020, English	
29	Geronimo Stilton #20 And #21	Geronimo Stilton			Bill Lobley			2 hrs and 32 mins	152	01-10-2010	English	5	18	469	01-10-2010, English	
30	The Red Pyramid	Rick Riordan			Jane Collingwood	Joseph May		13 hrs and 44 mins	824	24-01-2013	English	4.5	37	820	24-01-2013, English	
31	Mystery Of The Griever's Mark	Winter Morgan			Luke Daniels			1 hr and 53 mins	113	25-11-2014	English	5	9	233	25-11-2014, English	
32	Geronimo Stilton #17	Geronimo Stilton			Bill Lobley			2 hrs and 28 mins	148	13-07-2009	English	5	8	468	13-07-2009, English	



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THANKS

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