Intro. to DBS - Assignment 1 Query Output

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1. Question 1

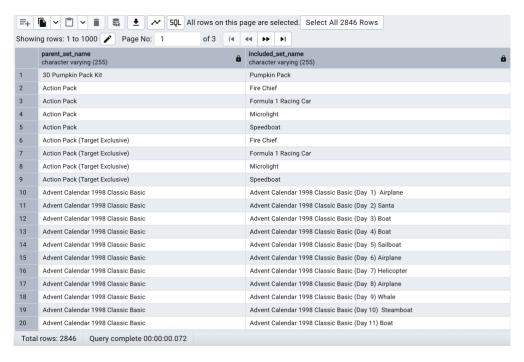503 rows in total
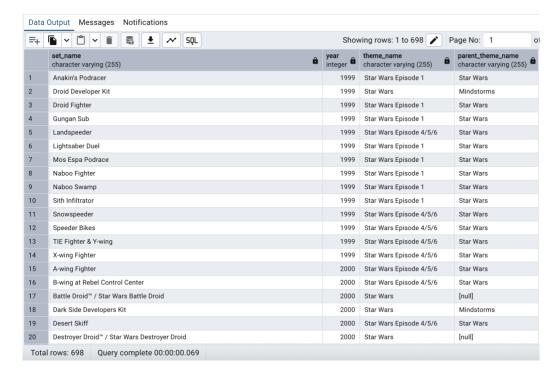
	Data Output	Messages	Notifications		
					Showing rows: 1 to 503

	set_num [PK] character varying (50)	name character varying (255)	num_parts integer
1	10221-1	Super Star Destroyer	3151
2	21010-1	Robie House	2276
3	9697-1	FIRST LEGO League Challenge 2011 - Food Factor	2115
4	8110-1	Unimog U400	2046
5	10218-1	Pet Shop	2034
6	10217-1	Diagon Alley	2031
7	9594-1	Green City	1356
8	10220-1	Volkswagen T1 Camper Van	1333
9	8070-1	Supercar	1280
10	7965-1	Millennium Falcon	1253
11	10219-1	Maersk Container Train	1232
12	10231-1	Shuttle Expedition	1229
13	2507-1	Fire Temple	1174
14	8109-1	Flatbed Truck	1114
15	4195-1	Queen Anne's Revenge	1094
16	7964-1	Republic Frigate	1030
17	9337-1	Harbor Set	906
18	7066-1	Earth Defense HQ	877
19	8679-1	Tokyo International Circuit	848
20	3677-1	Red Cargo Train	826

Total rows: 503   Query complete 00:00:00.081

2. Question 2

5 rows in total

	year integer	count bigint
1	2001	339
2	2002	447
3	2003	415
4	2004	371
5	2005	330

3. Question 3

2846 rows in total

	parent_set_name character varying (255)	included_set_name character varying (255)
1	3D Pumpkin Pack Kit	Pumpkin Pack
2	Action Pack	Fire Chief
3	Action Pack	Formula 1 Racing Car
4	Action Pack	Microlight
5	Action Pack	Speedboat
6	Action Pack (Target Exclusive)	Fire Chief
7	Action Pack (Target Exclusive)	Formula 1 Racing Car
8	Action Pack (Target Exclusive)	Microlight
9	Action Pack (Target Exclusive)	Speedboat
10	Advent Calendar 1998 Classic Basic	Advent Calendar 1998 Classic Basic (Day 1) Airplane
11	Advent Calendar 1998 Classic Basic	Advent Calendar 1998 Classic Basic (Day 2) Santa
12	Advent Calendar 1998 Classic Basic	Advent Calendar 1998 Classic Basic (Day 3) Boat
13	Advent Calendar 1998 Classic Basic	Advent Calendar 1998 Classic Basic (Day 4) Boat
14	Advent Calendar 1998 Classic Basic	Advent Calendar 1998 Classic Basic (Day 5) Sailboat
15	Advent Calendar 1998 Classic Basic	Advent Calendar 1998 Classic Basic (Day 6) Airplane
16	Advent Calendar 1998 Classic Basic	Advent Calendar 1998 Classic Basic (Day 7) Helicopter
17	Advent Calendar 1998 Classic Basic	Advent Calendar 1998 Classic Basic (Day 8) Airplane
18	Advent Calendar 1998 Classic Basic	Advent Calendar 1998 Classic Basic (Day 9) Whale
19	Advent Calendar 1998 Classic Basic	Advent Calendar 1998 Classic Basic (Day 10) Steamboat
20	Advent Calendar 1998 Classic Basic	Advent Calendar 1998 Classic Basic (Day 11) Boat

Total rows: 2846   Query complete 00:00:00.072

4. Question 4

698 rows in total

Data Output   Messages   Notifications

	set_name character varying (255)	year integer	theme_name character varying (255)	parent_theme_name character varying (255)
1	Anakin's Podracer	1999	Star Wars Episode 1	Star Wars
2	Droid Developer Kit	1999	Star Wars	Mindstorms
3	Droid Fighter	1999	Star Wars Episode 1	Star Wars
4	Gungan Sub	1999	Star Wars Episode 1	Star Wars
5	Landspeeder	1999	Star Wars Episode 4/5/6	Star Wars
6	Lightsaber Duel	1999	Star Wars Episode 1	Star Wars
7	Mos Espa Podrace	1999	Star Wars Episode 1	Star Wars
8	Naboo Fighter	1999	Star Wars Episode 1	Star Wars
9	Naboo Swamp	1999	Star Wars Episode 1	Star Wars
10	Sith Infiltrator	1999	Star Wars Episode 1	Star Wars
11	Snowspeeder	1999	Star Wars Episode 4/5/6	Star Wars
12	Speeder Bikes	1999	Star Wars Episode 4/5/6	Star Wars
13	TIE Fighter & Y-wing	1999	Star Wars Episode 4/5/6	Star Wars
14	X-wing Fighter	1999	Star Wars Episode 4/5/6	Star Wars
15	A-wing Fighter	2000	Star Wars Episode 4/5/6	Star Wars
16	B-wing at Rebel Control Center	2000	Star Wars Episode 4/5/6	Star Wars
17	Battle Droid™ / Star Wars Battle Droid	2000	Star Wars	[null]
18	Dark Side Developers Kit	2000	Star Wars	Mindstorms
19	Desert Skiff	2000	Star Wars Episode 4/5/6	Star Wars
20	Destroyer Droid™ / Star Wars Destroyer Droid	2000	Star Wars	[null]

Total rows: 698   Query complete 00:00:00.069

5. Question 5

7 rows in total

	category_name character varying (255) 🔒	total_quantity 🔒 bigint
1	Bricks	321105
2	Bricks Sloped	127042
3	Plates	301337
4	Plates Round and Dishes	77878
5	Plates Special	102119
6	Technic Pins	106187
7	Tiles	89252

6. Question 6

1 row in total

	theme_name character varying (255) 🔒	count_of_sets 🔒 bigint
1	Gear	246

7. Question 7

296 rows in total

Data Output   Messages   Notifications

Showing rows: 1 to 296   Page No: 1

	set_num [PK] character varying (50)	name character varying (255)	year integer	theme_id integer	num_parts integer
1	10255-1	Assembly Square	2017	155	4009
2	10257-1	Carousel	2017	22	2669
3	10703-1	Creative Builder Box	2017	365	499
4	10704-1	Creative Box	2017	365	900
5	10706-1	Blue Creative Box	2017	365	78
6	10707-1	Red Creative Box	2017	365	55
7	10708-1	Green Creative Box	2017	365	66
8	10709-1	Orange Creative Box	2017	365	60
9	10734-1	Demolition Site	2017	591	162
10	10735-1	Police Truck Chase	2017	591	90
11	10736-1	Anna & Elsa's Frozen Playground	2017	591	94
12	10737-1	Batman vs. Mr. Freeze	2017	591	63
13	10740-1	Fire Patrol Suitcase	2017	591	108
14	10746-1	Mia's Farm Suitcase	2017	591	104
15	10747-1	Andrea and Stephanie's Beach Holiday	2017	591	141
16	10824-1	Miles' Space Adventures	2017	504	23
17	10847-1	My First Number Train	2017	504	19
18	10849-1	My First Plane	2017	504	10
19	10852-1	My First Bird	2017	504	7
20	21032-1	Sydney	2017	253	361

Total rows: 296   Query complete 00:00:00.080

8. Question 8

39 rows in total

	id [PK] integer	name character varying (255)	parent_id integer
1	27	Race	23
2	28	Harbor	23
3	29	Train	23
4	35	Cargo	23
5	36	Fire	23
6	49	Mecha	22
7	94	Town Jr.	50
8	105	World City	50
9	192	Dragon Knights	186
10	241	Supplemental	233
11	280	Jack Stone	279
12	287	Spider-Man	279
13	290	Town	279
14	296	Adventurers	[null]
15	307	Aquazone	[null]
16	318	Belville	[null]
17	373	Vehicle	365
18	424	Western	411
19	428	Christmas	425
20	429	Halloween	425

Total rows: 39   Query complete 00:00:00.078

9. Question 9

5 rows in total

	color_name character varying (50)	rgb_value character varying (6)	total_quantity bigint	set_number bigint
1	Black	05131D	396589	8333
2	White	FFFFFF	221570	6801
3	Light Bluish Gray	A0A5A9	201930	3971
4	Red	C91A09	169987	6469
5	Dark Bluish Gray	6C6E68	148595	3748

10. Bonus 1

3 rows in total

	name character varying (255)	year integer
1	Dragon Sculpture, Ollie, the little dragon from Castleland (Legoland Billund)	2002
2	LEGO® Castle Dragon Wizard Key Chain	2014
3	Castle Dragons Accessory Set	2014

11. Bonus 2

1 row in total

	set_number bigint	unique_part_number bigint	theme_number bigint	average_parts_per_set numeric
1	11673	25993	614	162

Reference

1. w3schools SQL Tutorial

   https://www.w3schools.com/sql/default.asp

2. Mathematical Functions and Operators
   https://www.postgresql.org/docs/8.1/functions-math.html
3. Prof. Wang's Lecture Slides Ch3&4