Programming

Title

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Course	Database Concepts and Applications
Session	
Teacher	
Date	2022-09-08

1. Species Table

CREATE new table 'species' with the following fields

id

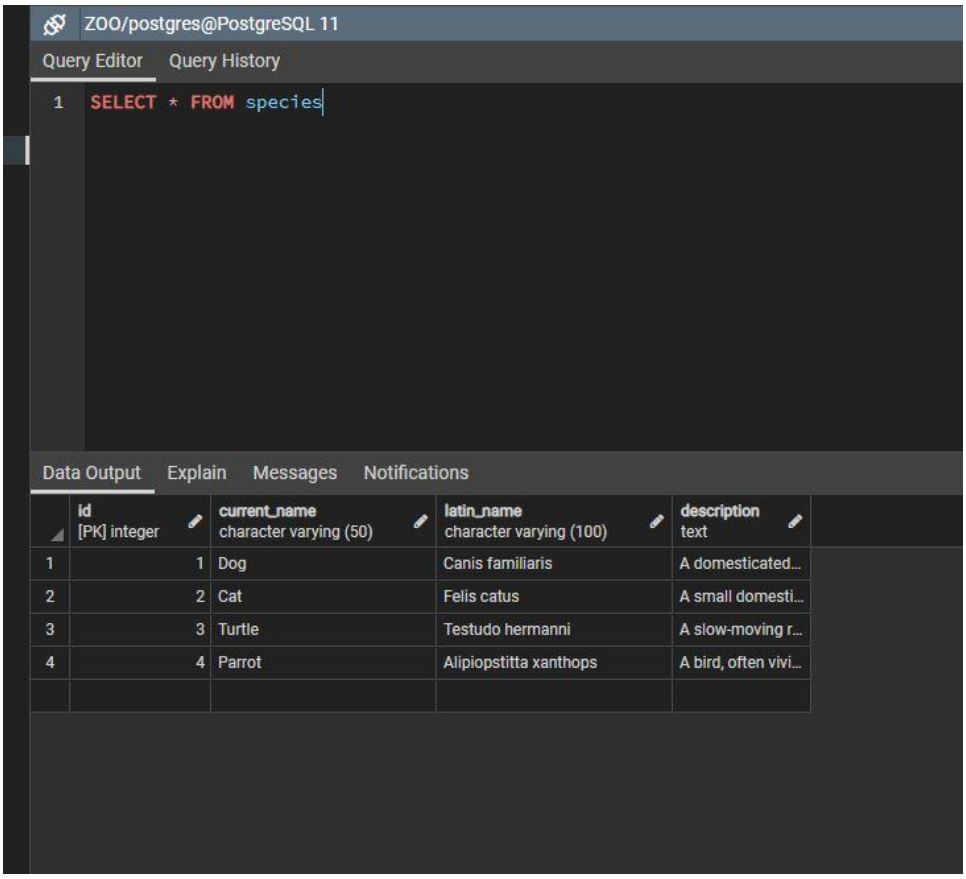
current_name

latin_name

description

Add a primary key to the table

INSERT into table created the following

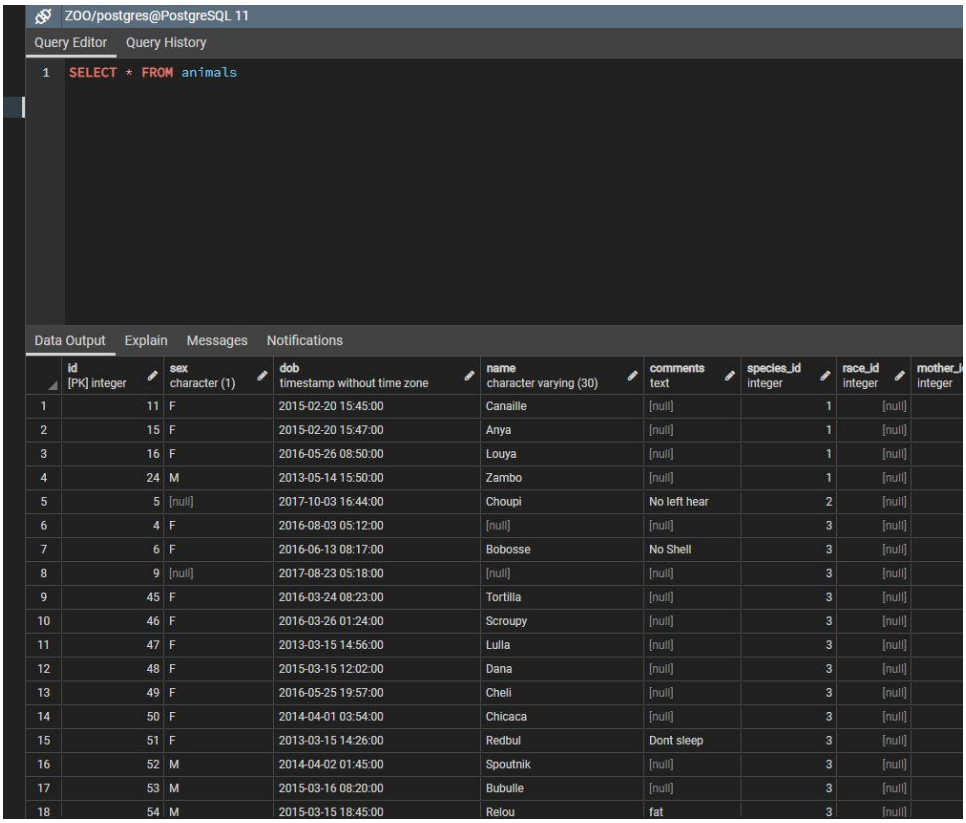


Add a new colunm : species_id in animals

Replace old species name with new species id from specie table

Delete old species column

Add Foreign Key

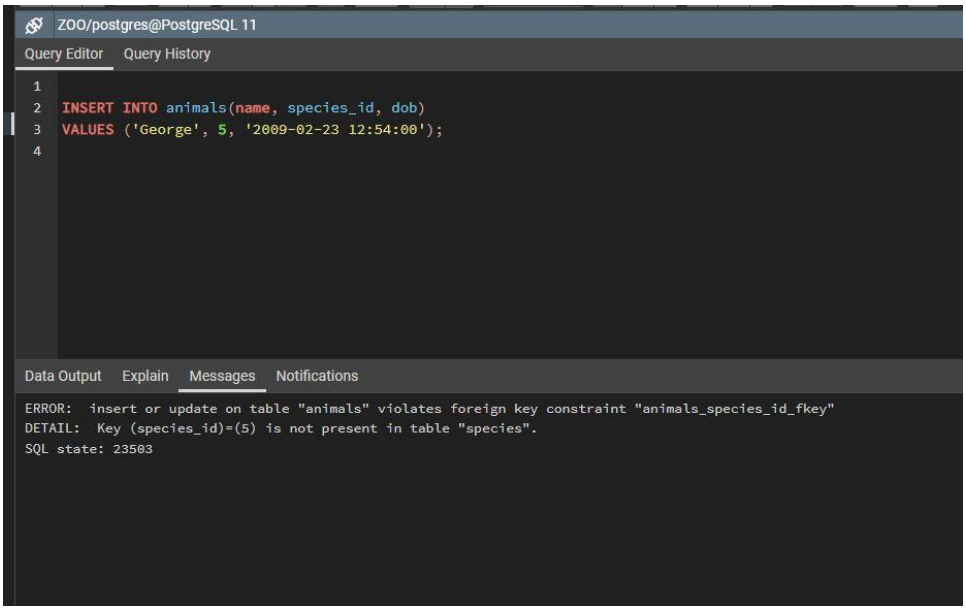


	id [PK] integer	sex character (1)	dob timestamp without time zone	name character varying (30)	comments text	species_id integer	race_id integer	mother_i integer
1	11	F	2015-02-20 15:45:00	Canaille	[null]	1	[null]	
2	15	F	2015-02-20 15:47:00	Anya	[null]	1	[null]	
3	16	F	2016-05-26 08:50:00	Louya	[null]	1	[null]	
4	24	M	2013-05-14 15:50:00	Zambo	[null]	1	[null]	
5	5	[null]	2017-10-03 16:44:00	Choupi	No left hear	2	[null]	
6	4	F	2016-08-03 05:12:00	[null]	[null]	3	[null]	
7	6	F	2016-06-13 08:17:00	Bobosse	No Shell	3	[null]	
8	9	[null]	2017-08-23 05:18:00	[null]	[null]	3	[null]	
9	45	F	2016-03-24 08:23:00	Tortilla	[null]	3	[null]	
10	46	F	2016-03-26 01:24:00	Scroupy	[null]	3	[null]	
11	47	F	2013-03-15 14:56:00	Lulla	[null]	3	[null]	
12	48	F	2015-03-15 12:02:00	Dana	[null]	3	[null]	
13	49	F	2016-05-25 19:57:00	Cheli	[null]	3	[null]	
14	50	F	2014-04-01 03:54:00	Chicaca	[null]	3	[null]	
15	51	F	2013-03-15 14:26:00	Redbul	Dont sleep	3	[null]	
16	52	M	2014-04-02 01:45:00	Spoutnik	[null]	3	[null]	
17	53	M	2015-03-16 08:20:00	Bubulle	[null]	3	[null]	
18	54	M	2015-03-15 18:45:00	Relou	fat	3	[null]	

Test:

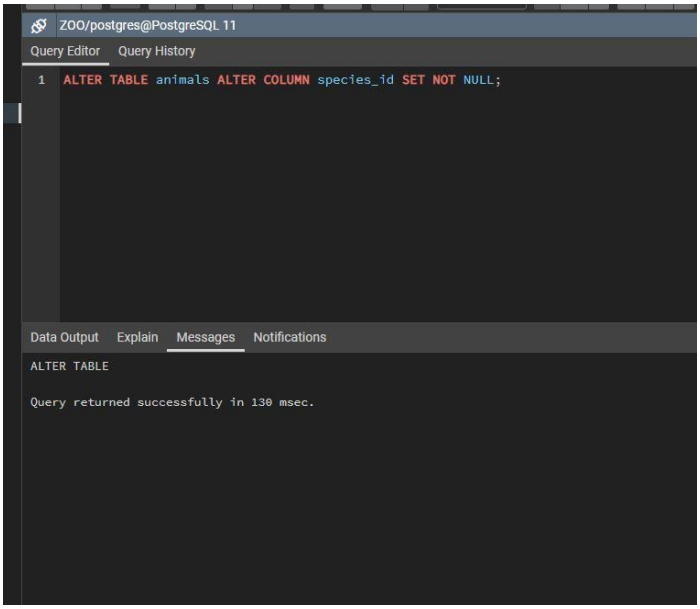
INSERT INTO animals(name, species_id, dob)

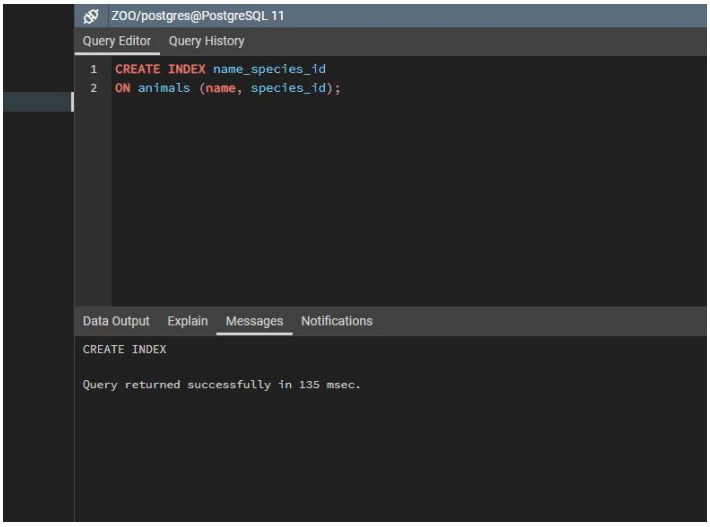
VALUES ('George', 5, '2009-02-23 12:54:00') -it should fail



Make column species_id not null

Add a unique index on columns name and species_id





2. Races

CREATE new table 'races' with the following fields

id

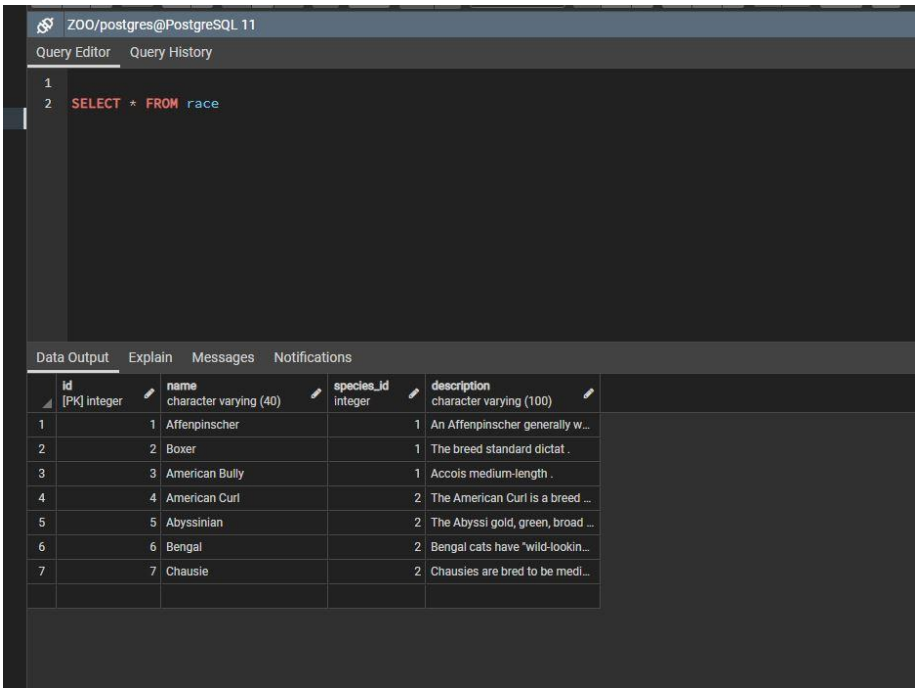
name

species_id

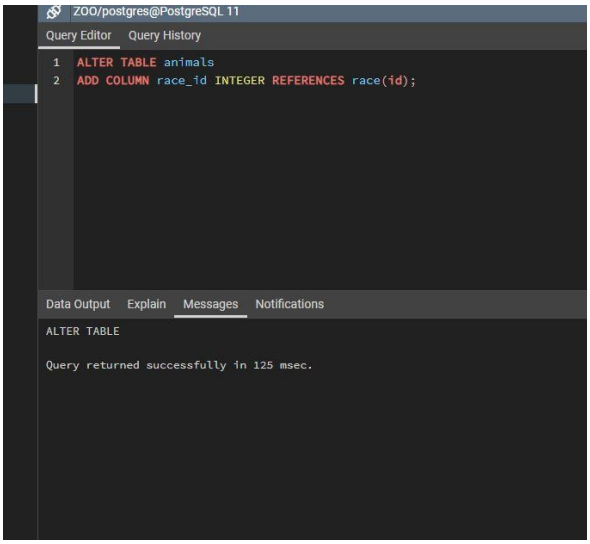
description

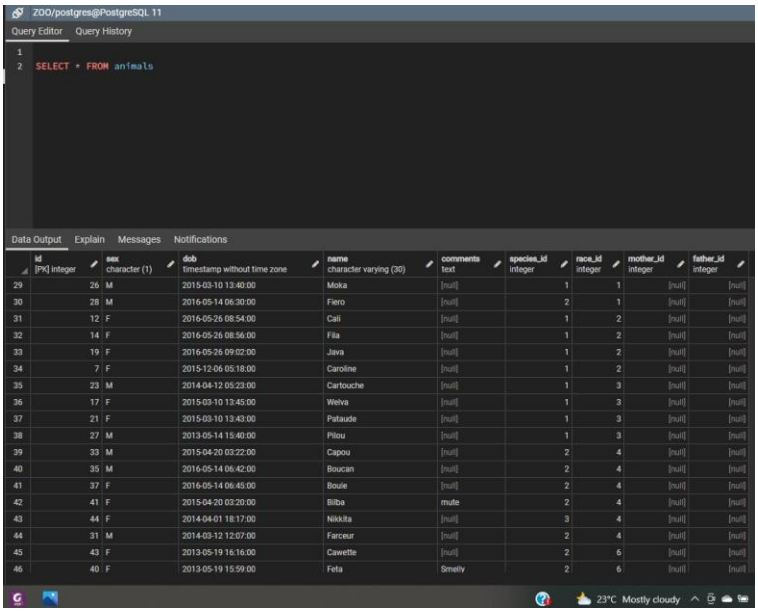
Add a primary key to the table

Add the reference key of specie



	id [PK] integer	name character varying (40)	species_id integer	description character varying (100)
1	1	Affenpinscher	1	An Affenpinscher generally w...
2	2	Boxer	1	The breed standard dictat .
3	3	American Bully	1	Accois medium-length .
4	4	American Curl	2	The American Curl is a breed ...
5	5	Abyssinian	2	The Abyssi gold, green, broad ...
6	6	Bengal	2	Bengal cats have "wild-lookin...
7	7	Chausie	2	Chausies are bred to be medi...





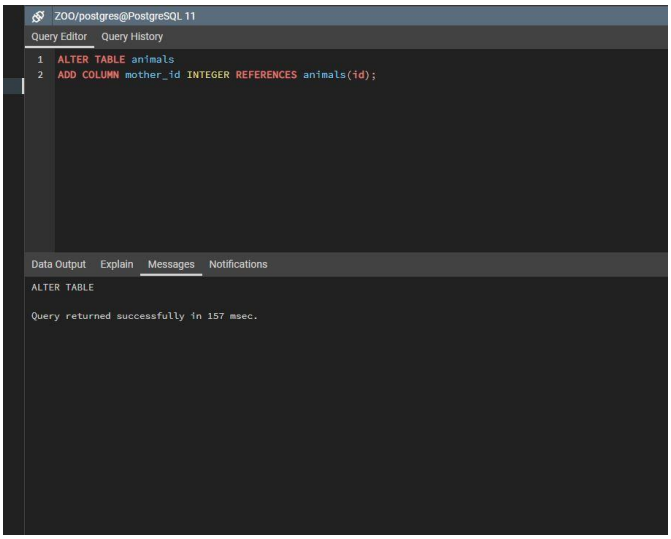
	id [PK] integer	sex character (1)	dob timestamp without time zone	name character varying (30)	comments text	species_id integer	race_id integer	mother_id integer	father_id integer
29	26	M	2015-03-10 13:40:00	Moka	[null]	1	1	[null]	[null]
30	28	M	2016-05-14 06:30:00	Fiero	[null]	2	1	[null]	[null]
31	12	F	2016-05-26 08:54:00	Cali	[null]	1	2	[null]	[null]
32	14	F	2016-05-26 08:56:00	Fila	[null]	1	2	[null]	[null]
33	19	F	2016-05-26 09:02:00	Java	[null]	1	2	[null]	[null]
34	7	F	2015-12-06 05:18:00	Caroline	[null]	1	2	[null]	[null]
35	23	M	2014-04-12 05:23:00	Cartouche	[null]	1	3	[null]	[null]
36	17	F	2015-03-10 13:45:00	Welva	[null]	1	3	[null]	[null]
37	21	F	2015-03-10 13:43:00	Pataude	[null]	1	3	[null]	[null]
38	27	M	2013-05-14 15:40:00	Pilou	[null]	1	3	[null]	[null]
39	33	M	2015-04-20 03:22:00	Capou	[null]	2	4	[null]	[null]
40	35	M	2016-05-14 06:42:00	Boucan	[null]	2	4	[null]	[null]
41	37	F	2016-05-14 06:45:00	Boule	[null]	2	4	[null]	[null]
42	41	F	2015-04-20 03:20:00	Bilba	mute	2	4	[null]	[null]
43	44	F	2014-04-01 18:17:00	Nikkita	[null]	3	4	[null]	[null]
44	31	M	2014-03-12 12:07:00	Farceur	[null]	2	4	[null]	[null]
45	43	F	2013-05-19 16:16:00	Cawette	[null]	2	6	[null]	[null]
46	40	F	2013-05-19 15:59:00	Feta	Smelly	2	6	[null]	[null]

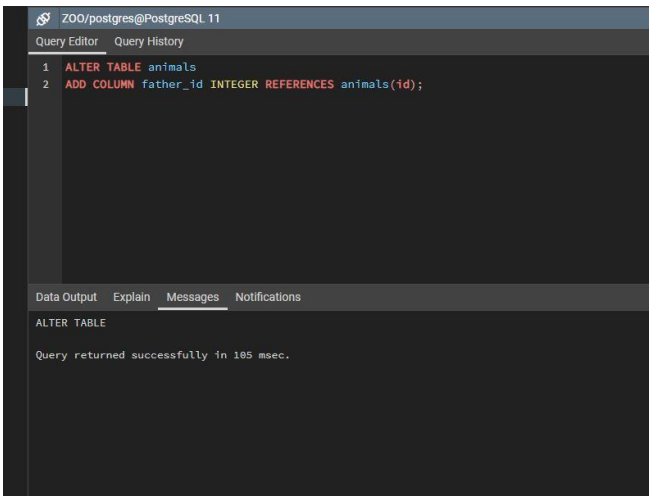
3. Parents

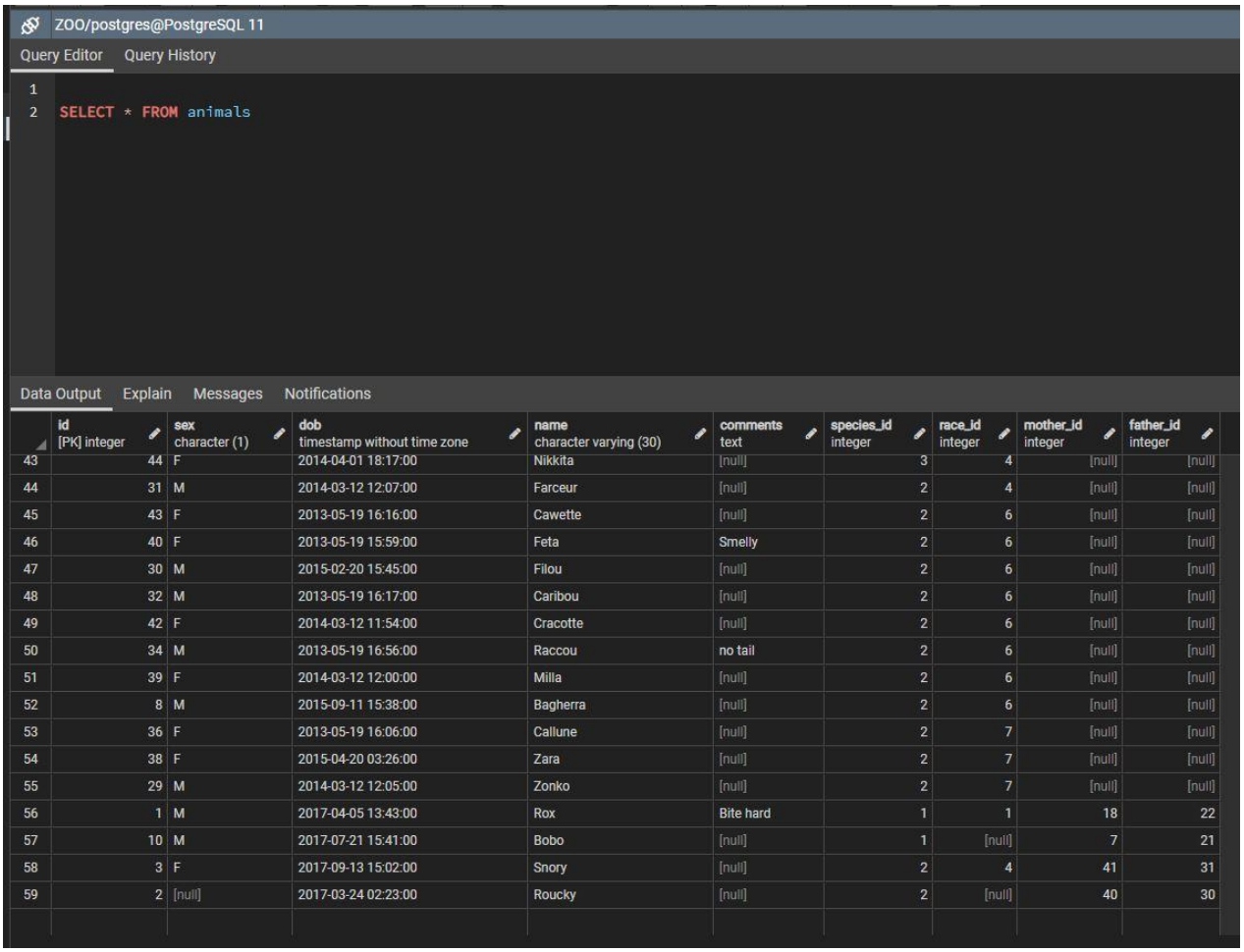
Add fields: mother_id and father_id

Add Foreign Key to both (reference table is the same table)

Give some animals a mother and a father (insert_race.txt)







	id [PK] integer	sex character (1)	dob timestamp without time zone	name character varying (30)	comments text	species_id integer	race_id integer	mother_id integer	father_id integer
43	44	F	2014-04-01 18:17:00	Nikkita	[null]	3	4	[null]	[null]
44	31	M	2014-03-12 12:07:00	Farceur	[null]	2	4	[null]	[null]
45	43	F	2013-05-19 16:16:00	Cawette	[null]	2	6	[null]	[null]
46	40	F	2013-05-19 15:59:00	Feta	Smelly	2	6	[null]	[null]
47	30	M	2015-02-20 15:45:00	Filou	[null]	2	6	[null]	[null]
48	32	M	2013-05-19 16:17:00	Caribou	[null]	2	6	[null]	[null]
49	42	F	2014-03-12 11:54:00	Cracotte	[null]	2	6	[null]	[null]
50	34	M	2013-05-19 16:56:00	Raccou	no tail	2	6	[null]	[null]
51	39	F	2014-03-12 12:00:00	Milla	[null]	2	6	[null]	[null]
52	8	M	2015-09-11 15:38:00	Bagherra	[null]	2	6	[null]	[null]
53	36	F	2013-05-19 16:06:00	Callune	[null]	2	7	[null]	[null]
54	38	F	2015-04-20 03:26:00	Zara	[null]	2	7	[null]	[null]
55	29	M	2014-03-12 12:05:00	Zonko	[null]	2	7	[null]	[null]
56	1	M	2017-04-05 13:43:00	Rox	Bite hard	1	1	18	22
57	10	M	2017-07-21 15:41:00	Bobo	[null]	1	[null]	7	21
58	3	F	2017-09-13 15:02:00	Snory	[null]	2	4	41	31
59	2	[null]	2017-03-24 02:23:00	Roucky	[null]	2	[null]	40	30