Особенности INNER JOIN

Количество записей в запросах с JOIN: продажи за март

đt	manager_id	product_id	cnt
2020-03-01	1	1	5
2020-03-01	2	2	20
2020-03-02	3	3	6
2020-03-02	4	1	20
2020-03-05	5	2	4
2020-03-05	1	3	3
2020-03-07	2	1	20
2020-03-11	3	2	20
2020-03-12	4	3	9
2020-03-25	1	4	20
10 rows of 17			

dt	first_name	last_name	product_name	cnt
2020-03-25	Ellis	Forbes	disk utils	20
2020-03-25	Ellis	Forbes	Motherboard	20
2020-03-05	Ellis	Forbes	HDD	3
2020-03-01	Ellis	Forbes	disk utils	5
2020-03-28	Piter	Robinson	os	50
2020-03-27	Piter	Robinson	Motherboard	20
2020-03-25	Piter	Robinson	os	7
2020-03-07	Piter	Robinson	disk utils	20
2020-03-01	Piter	Robinson	os	20
2020-03-11	Piter	Graham	os	20
•••				
10 rows of 17				

select * from skill_sales_march

select t1.dt,t2.first_name,t2.last_name, t3.product_name,t1.cnt from skill_sales_march t1 join skill_managers t2 on t1.manager_id=t2.manager_id join skill_product t3 on t1.product_id=t3.product_id

Количество записей в запросах с JOIN: продажи за сентябрь

dt	manager_id	product_id	cnt
2020-09-01	1	5	5
2020-09-02	11	5	3
2020-09-04	3	1	4
2020-09-05	3	6	7
2020-09-05	12	6	4
2020-09-07	1	2	4
2020-09-02	3	7	8
2020-09-08	14	7	5
2020-09-12	5	2	9
2020-09-14	7	4	3
10 rows of 27			

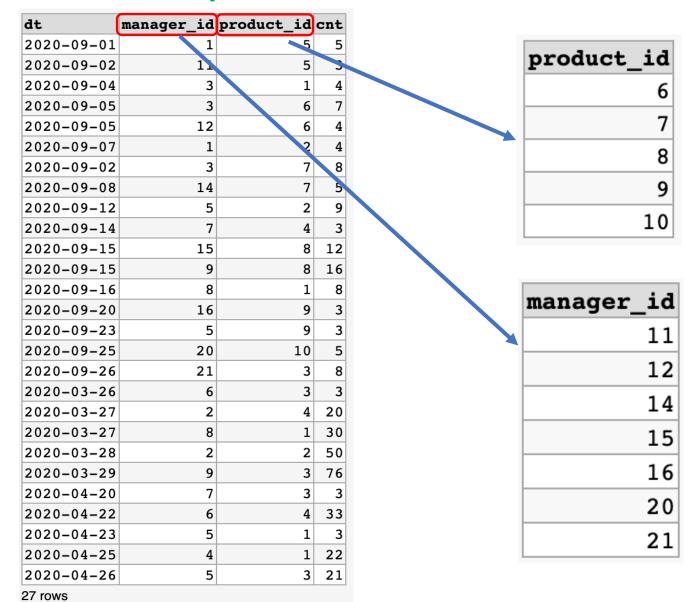
dt	first_name	last_name	<pre>product_name</pre>	cnt
2020-09-01	Ellis	Forbes	Cooller	5
2020-09-04	Piter	Graham	disk utils	4
2020-09-07	Ellis	Forbes	os	4
2020-09-12	Ellis	Cisneros	os	9
2020-09-14	Kaiden	Wall	Motherboard	3
2020-09-16	Ellis	Chen	disk utils	8
2020-03-26	Darryl	Mathis	HDD	3
2020-03-27	Piter	Robinson	Motherboard	20
2020-03-27	Ellis	Chen	disk utils	30
2020-03-28	Piter	Robinson	os	50
•••				

select * from skill_sales_september

select t1.dt,t2.first_name,t2.last_name, t3.product_name,t1.cnt from skill_sales_september t1 join skill_managers t2 on t1.manager_id=t2.manager_id join skill_product t3 on t1.product_id=t3.product_id

Различия в наборах идентификаторов

skill_sales_september



skill_product

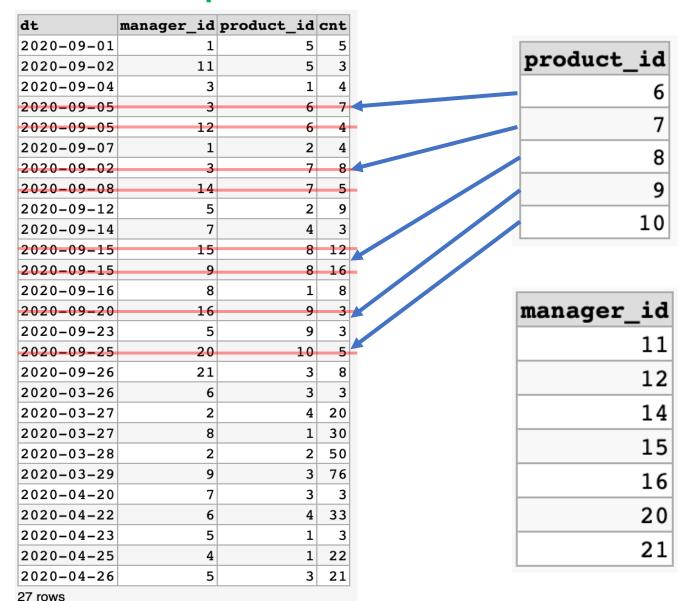
product_id	product_name	product_category_id	price_usd
1	disk utils	1	100
2	os	1	999
3	HDD	2	500
4	Motherboard	2	650
5	Cooler	2	5

skill_managers

manager_id	first_name	last_name	age	gender	age_group
1	Ellis	Forbes	27	F	(25:35)
2	Piter	Robinson	24	M	(18:25)
3	Piter	Graham	23	М	(18:25)
4	Abbie	Peters	25	М	(25:35)
5	Ellis	Cisneros	25	F	(25:35)
6	Darryl	Mathis	29	F	(25:35)
7	Kaiden	Wall	38	F	(35:45)
8	Ellis	Chen	25	F	(25:35)
9	Paul	Lucas	23	М	(18:25)
10	Max	Kaiser	21	F	(18:25)

Выполнение условия присоединения в JOIN

skill_sales_september



skill_product

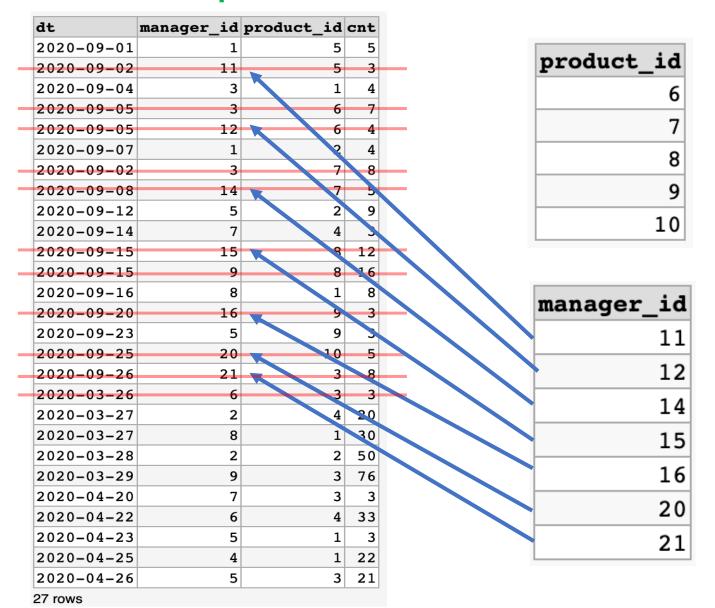
... join skill_product t3 on t1.product_id = t3.product_id

skill_managers

... join skill_managers t2 on t1.manager_id = t2.manager_id

Выполнение условия присоединения в JOIN

skill_sales_september



skill_product

... join skill_product t3 on t1.product_id = t3.product_id

skill_managers

... join skill_managers t2 on t1.manager_id = t2.manager_id

INNER JOIN

skill_sales_march - t1

đt	manager_id	product_id	cnt
2020-03-01	1	1	5
2020-03-01	2	2	20
2020-03-02	3	3	6
2020-03-02	4	1	20
2020-03-05	5	2	4
2020-03-05	1	3	3
2020-03-07	2	1	20
2020-03-11	3	2	20
2020-03-12	4	3	9
2020-03-25	1	4	20
2020-03-25	1	1	20
2020-03-25	2	2	7
2020-03-26	6	3	3
2020-03-27	2	4	20
2020-03-27	8	1	30
2020-03-28	2	2	50
2020-03-29	9	3	76

skill_managers - t2

manager_id	first_name	last_name	age	gender	age_group
1	Ellis	Forbes	27	F	(25:35)
2	Piter	Robinson	24	M	(18:25)
3	Piter	Graham	23	M	(18:25)
4	Abbie	Peters	25	M	(25:35)
5	Ellis	Cisneros	25	F	(25:35)
6	Darryl	Mathis	29	F	(25:35)
7	Kaiden	Wall	38	F	(35:45)
8	Ellis	Chen	25	F	(25:35)
9	Paul	Lucas	23	М	(18:25)
10	Max	Kaiser	21	F	(18:25)

skill_product - t3

product_id	product_name	product_category_id	price_usd
1	disk utils	1	100
2	os	1	999
3	HDD	2	500
4	Motherboard	2	650
5	Cooler	2	5

select * from skill_sales_march t1 join skill_managers t2 on t1.manager_id=t2.manager_id join skill_product t3 on t1.product_id=t3.product_id

đt	manager_id	product_id	cnt	manager_id	first_name	last_name	age	gender	age_group	product_id	product_name	product_category_id	price_usd
2020-03-01	1	1	. 5	1	Ellis	Forbes	27	F	(25:35)	1	disk utils	1	100
2020-03-01	2	2	20	2	Piter	Robinson	24	М	(18:25)	2	os	1	999
2020-03-02	3	3	6	3	Piter	Graham	23	М	(18:25)	3	HDD	2	500
2020-03-02	4	1	20	4	Abbie	Peters	25	М	(25:35)	1	disk utils	1	100
2020-03-05	5	2	4	5	Ellis	Cisneros	25	F	(25:35)	2	os	1	999

Практика к уроку

В таблице со сделками **skill_deals** есть идентификаторы:

- customer_id идентификатор покупателя
- supplier_id идентификатор продавца

Свяжите с помощью **INNER JOIN** оба идентификатора с таблицей-справочником **skill_customers_suppliers**, которая является справочником продавцов и покупателей одновременно (поле-идентификатор **customers_suppliers_id**)

Вид результирующей таблицы:

dt	customer_name	supplier_name
2020-03-01	Sincere Forbes	Giovanny Robinson
2020-03-10	Sincere Forbes	Kaiden Wall
2020-03-09	Sincere Forbes	Paul Lucas
2020-03-03	Sincere Forbes	Zoe Kaiser
2020-03-15	Sincere Forbes	Jamiya Spears
2020-03-20	Sincere Forbes	Martha Kelly
2020-03-02	Giovanny Robinson	Giovanny Robinson
2020-03-03	Giovanny Robinson	Luna Ferguson
2020-03-02	Averie Graham	Darryl Mathis
2020-03-03	Averie Graham	Darryl Mathis
10 rows of 15		