**Foreign Keys, INNER JOIN**

**F**oreign keys are sort of similar to primary keys, but a little bit different.

Example : Let’s say we have names and customers.

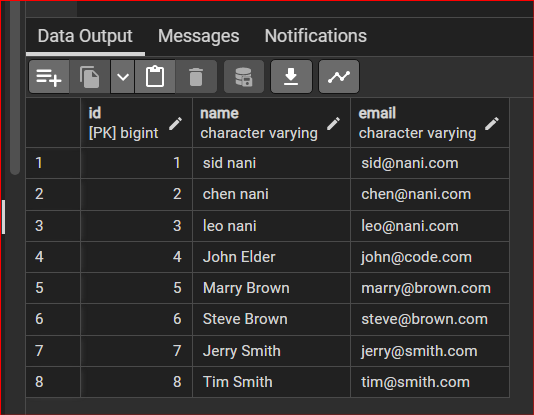
Well, let’s say people probably bought something.

What did they buy? -> We might have another table with all the stuff that they bought.

* We need to be able to connect those two tables in a meaningful way.

And we, do that with a **foreign key**

**Recreated customers table:**



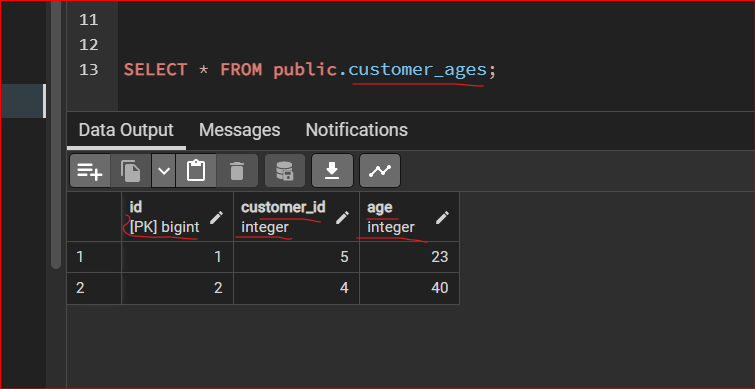
Create another table “Customer\_ages”

And instead of doing orders, let's just create something called customer ages.

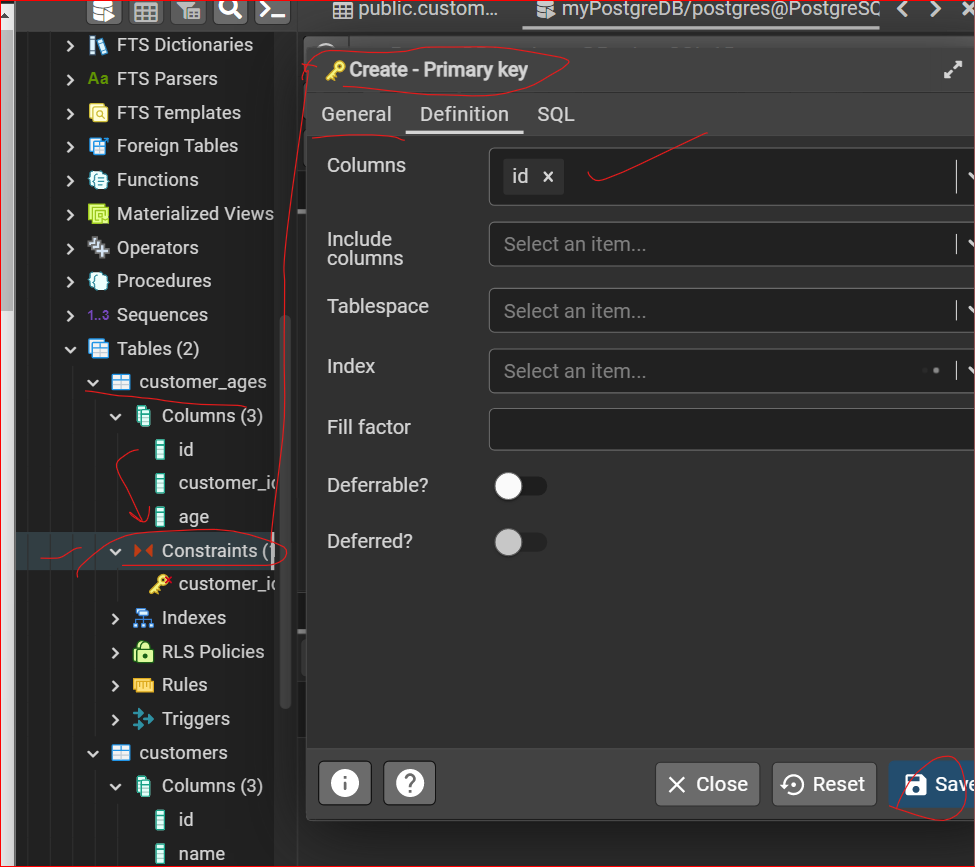
**Created a “Customer\_ages” table**

**With 3 columns:**

* **Id as “bigint”**
* **Customer\_id as “integer” and NOT NULL**
* **Age as “integer”**

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**Make “id” as Primary Key and it will UNLOCK the table (so you can edit)**

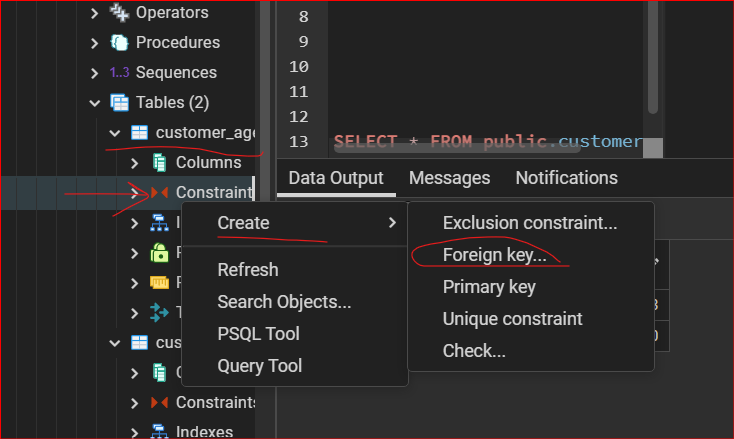
* **Right Click on Constraints tab and Give name as : id in General tab**
* ****

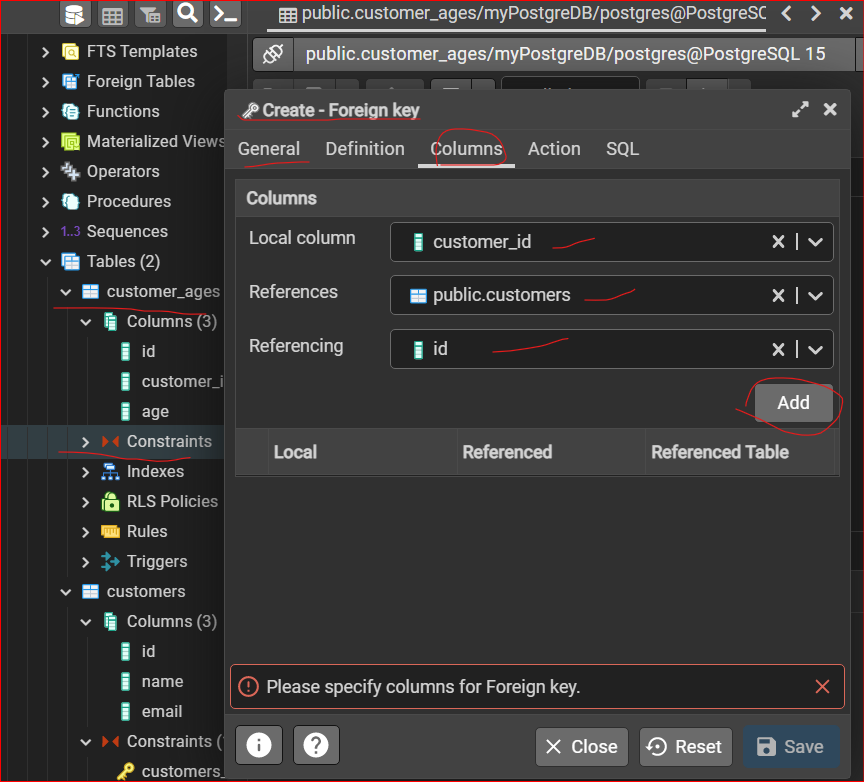
**SAVE**

**Now we want this “customer\_id” as Foreign Key and Should be same as “customer\_id” in customers table**

**In customer\_ages table**

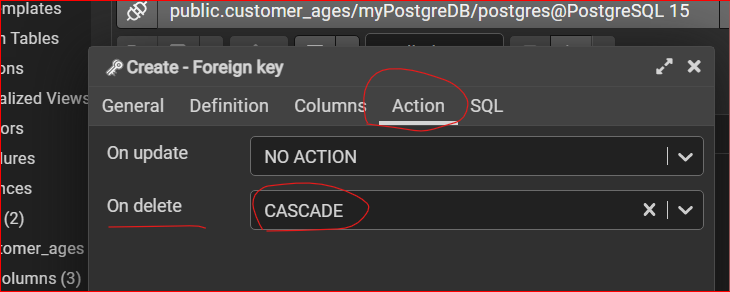
**We have “Constraints” tab -> right click on it -> and select CREATE-> Foreign Key**

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**Also Enable ACTION**

**For ON DELETE -> CASCADE (anytime you delete and Id it will get effected in another table also)**

**Save**

**Now we want to DELETE customer\_id = 8**

**Now Open Query Tool : from Upper Menu -> Tools -> Query Tool**

* **DELETE FROM public.customer\_ages**
* **WHERE id = 8;**

**Result:**

**This will effect both the tables as customer\_id = 8 record will be removed!**

**INNER JOIN**

**-- INNER JOIN (SELECT you choices what you want in your report, and FROM - give/Designate main table(i.e not a Foreign Key table)**

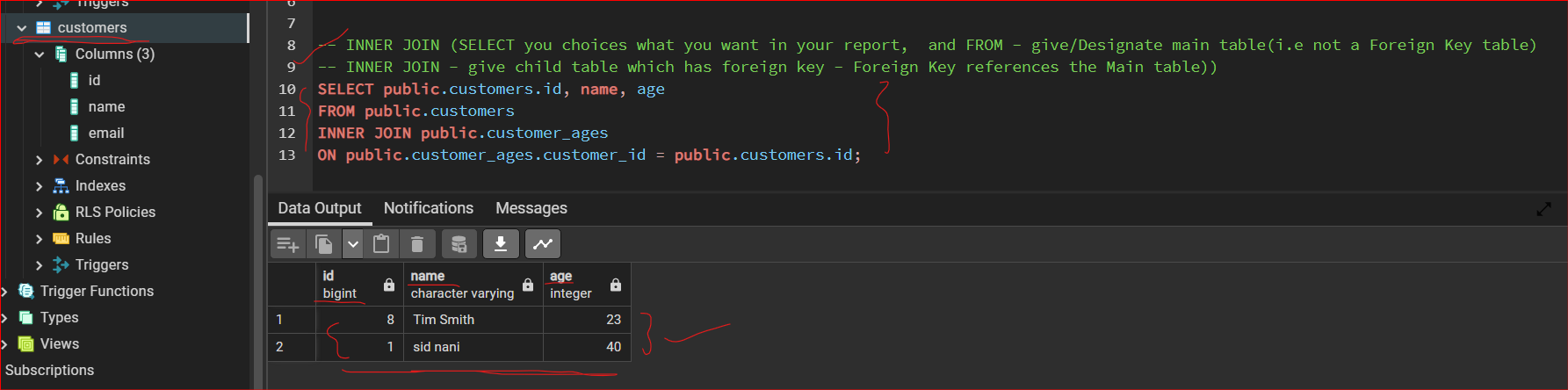
**-- INNER JOIN - give child table which has foreign key - Foreign Key references the Main table))**

SELECT public.customers.id, name, age

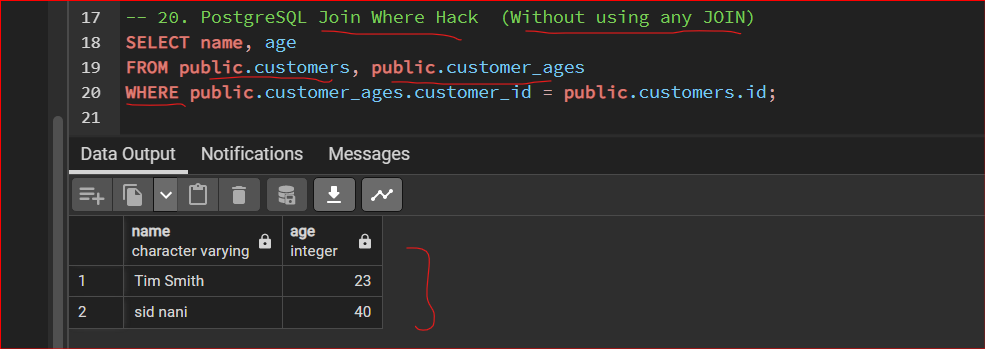
FROM public.customers

INNER JOIN public.customer\_ages

ON public.customer\_ages.customer\_id = public.customers.id;

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**20. PostgreSQL Join Where Hack**

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