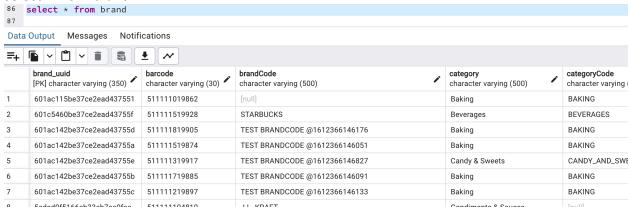
Brands data quality checks -

select * from brand



select brand uuid, count(*) from brand

group by brand_uuid

having count(*) > 1

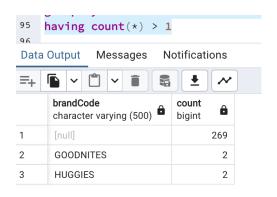


select "brandCode", count(*)

from brand

group by "brandCode"

having count(*) > 1



Although just 2 duplicates, but a lot of NULLS for brandcode, depicting data quality issues and reducing reliability to use this field as a join. Let's dive further to inspect where the duplicates are there -

select * from brand where "brandCode" = 'HUGGIES'



From my observation, I see that the barcode is different and also one of them has missing categoryCode. My intuition is that one of the records is an older one, which has not been removed from the table (since just 2 duplicates). However, I will have to ask leader in this regard for better decision making. One solution can be to transform this into SCD wherein we can then maintain history and use current Flag to mark the latest record and solve this issue.

select * from brand where "brandCode" = 'GOODNITES'

=+									
	brand_uuid [PK] character varying (350)	barcode character varying (30)	brandCode character varying (500)	category character varying (500)	categoryCode character varying (350)	cpg_id character varying (350)	cpg_ref character varying (100)	topBrand boolean	name chara
1	5db32879ee7f2d6de4248976	511111112938	GOODNITES	Baby	BABY	55b62995e4b0d8e685c14213	Cogs	true	Good
2	5bd200fc965c7d66d92731eb	511111204640	GOODNITES	Baby	[null]	550b2565e4b001d5e9e4146f	Cogs	false	Good

Similar case for the other brandcode as well.

select * from brand where "brandCode" is NULL



On observing NULL Brandcode, I can observe topBrand as well as other fields and barcode being populated, thus confirming data quality issues with brandcode.

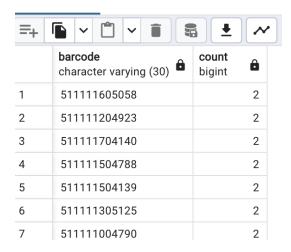
Now let's inspect barcode -

select barcode, count(*)

from brand

group by barcode

having count(*) > 1



We observe 7 duplicate barcodes as well but **no nulls**.

Diving into one of the barcodes –

select * from brand where barcode = '511111605058'



Here again I see data quality issues as **brandcode** is also populated with barcode in one field and these two are different 'names' itself. So we need to identify root cause for the issues here. Ideally we need to remove the duplicates, either by finding the source of truth table for this.

However, in order to proceed ahead with joins for data modeling, I have decided as of now based on NULL values and bad data in brandcode, and few duplicates, to use barcode to join with other tables in the data model.

ALTER TABLE brand

ADD CONSTRAINT pk_brand PRIMARY KEY (brand_uuid);