Q1. What are the top 5 brands by receipts scanned among users 21 and over?

```
Q. What are the top 5 brands by receipts scanned among users 21 and over?
query1 = """
WITH valid_users as (SELECT
strftime('%m-%d', birth date)) AS Age,
FROM users u
INNER JOIN transactions t on t.user_id = u.id
INNER JOIN products p on p.barcode = t.barcode)
SELECT brand as "Brand name", count(receipt_id) as "Number of receipts"
FROM valid users
WHERE age >= 21 AND brand != 'nan'
GROUP BY brand
ORDER BY count(receipt id) DESC
LIMIT 5
.....
result1 = pd.read_sql(query1, conn)
print(result1)
```

OUTPUT:

	Brand name	Number o	f receipts
0	NERDS CANDY		6
1	DOVE		6
2	TRIDENT		4
3	SOUR PATCH KIDS		4
4	MEIJER		4

Q2. What are the top 5 brands by sales among users that have had their account for at least six months?

```
least six months?
quantity is 0 the sale value is there
query2 = """
WITH eligible users as (
SELECT brand, sum(final sale) as "Total sales"
FROM sales
GROUP BY brand
ORDER BY sum(final sale) DESC
LIMIT 5
```

```
result2 = pd.read_sql(query2, conn)
print(result2)
```

OUTPUT:

	brand	Total sales
0	CVS	72.00
1	TRIDENT	46.72
2	DOVE	42.88
3	COORS LIGHT	34.96
4	QUAKER	16.60

Q3. What is the percentage of sales in the Health & Wellness category by generation?

```
Q. What is the percentage of sales in the Health & Wellness category by generation?
https://www.parents.com/parenting/better-parenting/style/generation-names-and-years-a-
query3 = """
WITH valid_transactions as (
gen users as (
Generation'
```

```
when strftime('%Y', birth_date) BETWEEN '1965' AND '1980' then 'Generation
Alpha'
total_sales as (
SELECT
100.0, 2) as "Health & Wellness Sales %"
FROM valid transactions v
INNER JOIN gen users g on v.user id = g.id
GROUP BY generation
ORDER BY "Health & Wellness Sales %" DESC
11 11 11
result3 = pd.read_sql(query3, conn)
print(result3)
```

OUTPUT:

	·	Generation	Health	&	Wellness	Sales %	
0	Baby Boom	Generation				46.94	
1		Millennial				31.18	
2	Ge	eneration X				21.88	