Q1. Who are Fetch's power users?

```
present in the products table.
entire products table
query4 = """
WITH valid users as (select
account lifetime in months
FROM transactions t
INNER JOIN users u on u.id = t.user id
WHERE final sale != 0 and final quantity != 0
GROUP BY id, account lifetime in months
```

```
SELECT

id,

number_transactions,

total_sales,

account_lifetime_in_months

FROM cte_avg

WHERE

number_transactions > avg_transactions

AND total_sales > avg_sales

AND account_lifetime_in_months > avg_lifetime

ORDER BY number_transactions DESC, total_sales DESC, account_lifetime_in_months DESC;

"""

result4 = pd.read_sql(query4, conn)

print(result4)
```

OUTPUT:

	id	number_transactions	total_sales	account_lifetime_in_months
0	61a58ac49c135b462ccddd1c	3	14.99	39
1	5c366bf06d9819129dfa1118	3	12.20	73
2	610a8541ca1fab5b417b5d33	3	10.97	42
3	5fc12a8a16770448f92e56b8	2	14.67	51
4	5b441360be53340f289b0795	2	10.33	79
5	5f21e60446f11314a16015de	2	8.98	55
6	5f6518d1bf3f5a43fdd0c9a5	2	8.60	53
7	5ca54049adfcb4140b54e1bf	2	7.24	70

Q2. Which is the leading brand in the Dips & Salsa category?

```
# Q. Which is the leading brand in the Dips & Salsa category?
# Assumption: The brand which had the most sales can be considered a leading brand

query5 = """

SELECT
    brand,
    COUNT(t.barcode) as number_of_products_sold,
    SUM(final_sale) as total_sales

FROM products p

INNER JOIN transactions t on p.barcode = t.barcode

WHERE category_2 = 'Dips & Salsa' and final_sale != 0 and final_quantity != 0

GROUP BY brand

ORDER BY total_sales desc
```

```
LIMIT 1
"""
result5 = pd.read_sql(query5, conn)
print(result5)
```

OUTPUT:

```
BRAND number_of_products_sold total_sales
0 TOSTITOS 36 181.3
```

Q3. At what percent has Fetch grown year over year?

```
query6 = """
WITH user growth as (
previousTotal,
SELECT
customer_growth_yoy_percent
FROM user_growth
WHERE previousTotal != 0
.. .. ..
result6 = pd.read_sql(query6, conn)
print(result6)
```

OUTPUT:

	Year	previousTotal	<u>currentTotal</u>	customer_growth_yoy_percent
0	2015	30	51	70.00
1	2016	51	70	37.25
2	2017	70	644	820.00
3	2018	644	2168	236.65
4	2019	2168	7093	227.17
5	2020	7093	16883	138.02
6	2021	16883	19159	13.48
7	2022	19159	26807	39.92
8	2023	26807	15464	-42.31
9	2 <u>0</u> 24	15464	11631	-24.79