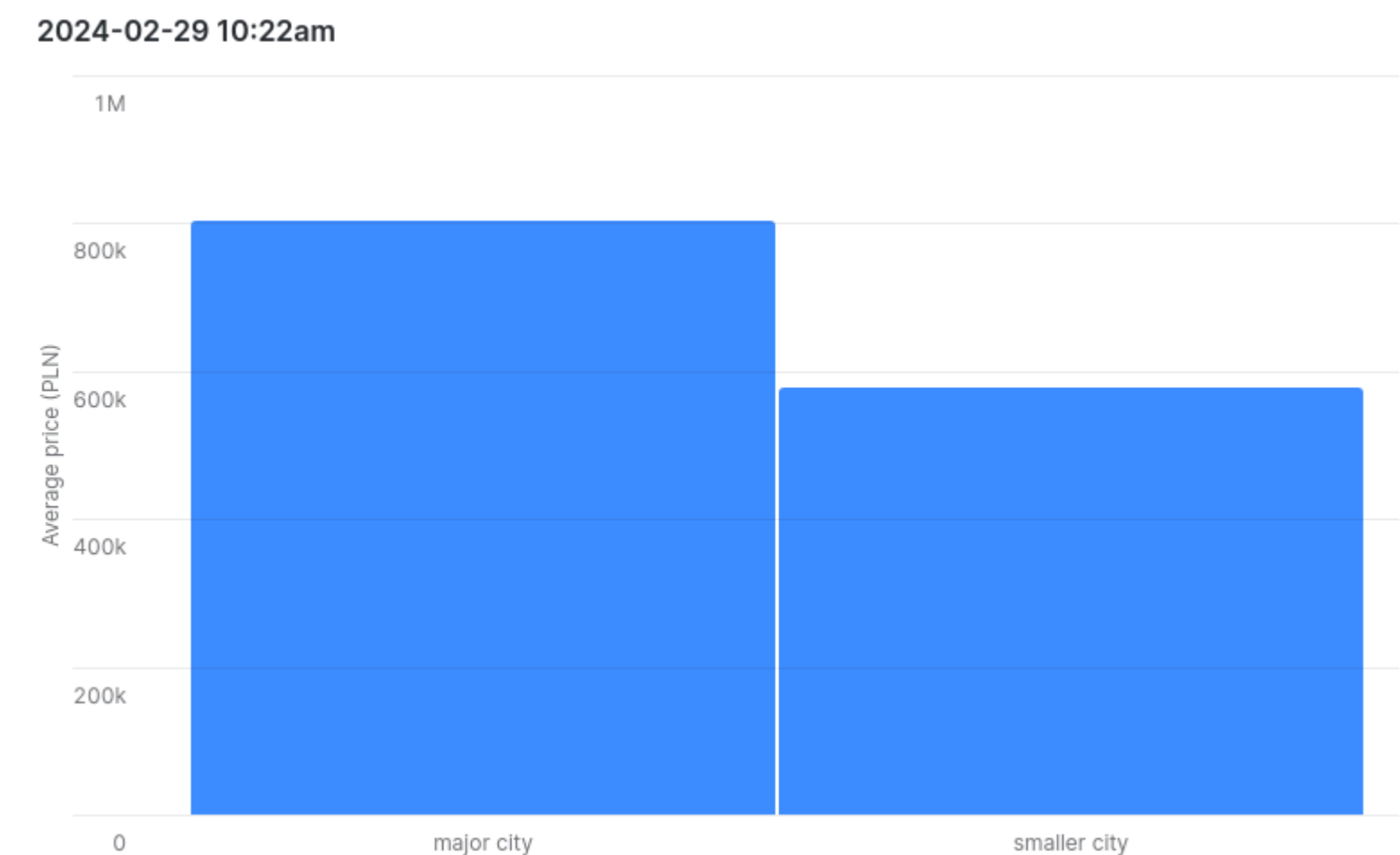


# Otodom.pl analysis with Snowflake

Average prices for ten major Polish cities vs rest of the cities

```
SELECT city_category, ROUND(AVG(price),0) AS average_price_PLN,
ROUND(AVG(price*0.23),0) AS average_price_EURO FROM otodom_final_3
GROUP BY city_category
ORDER BY average_price_PLN DESC;
```

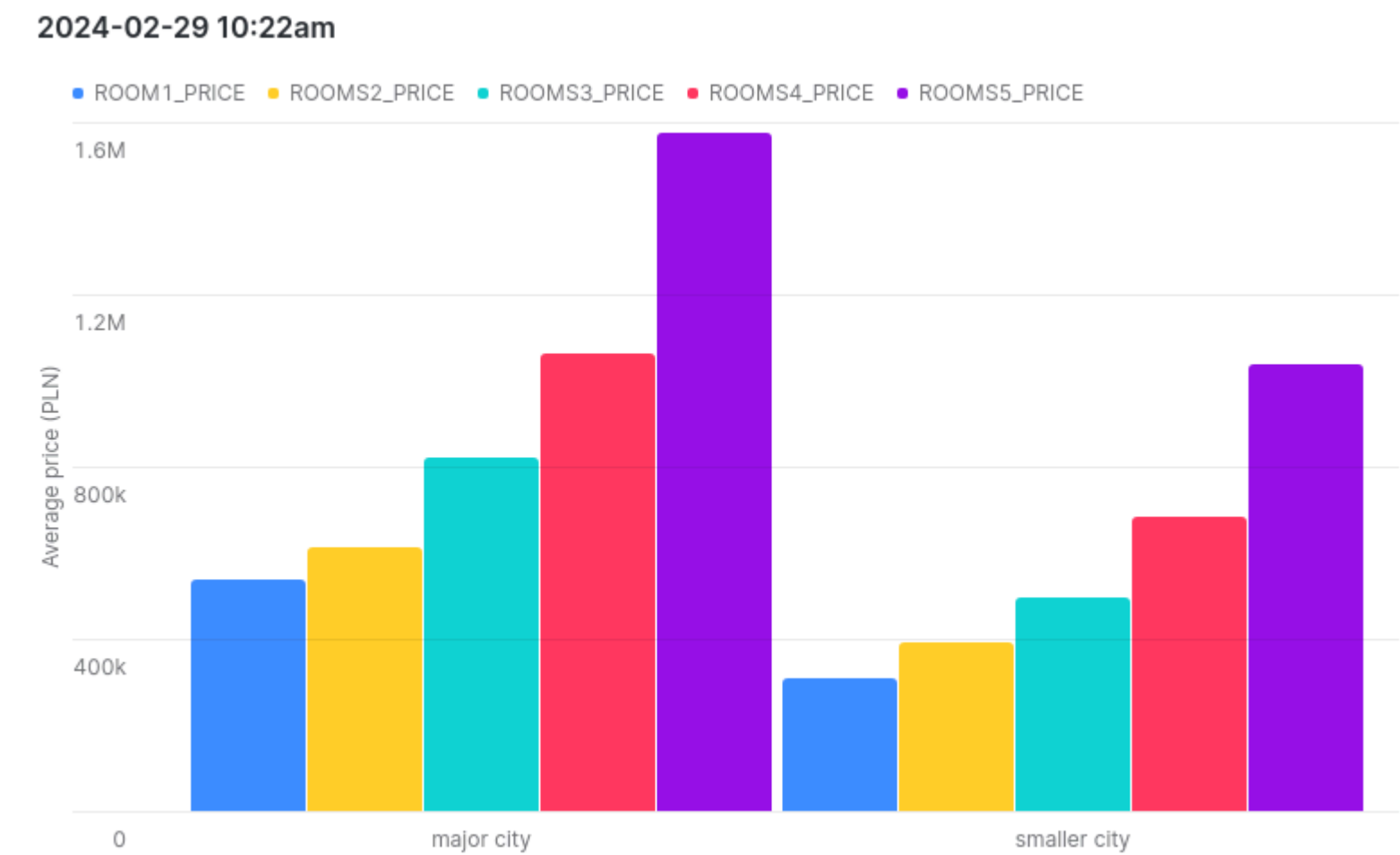
City category	Average price (PLN)	Average price (Euro)
major city	804 607	185 060
smaller city	577 394	132 801



Average prices for major and smaller cities by number of rooms offered (1 to 5)

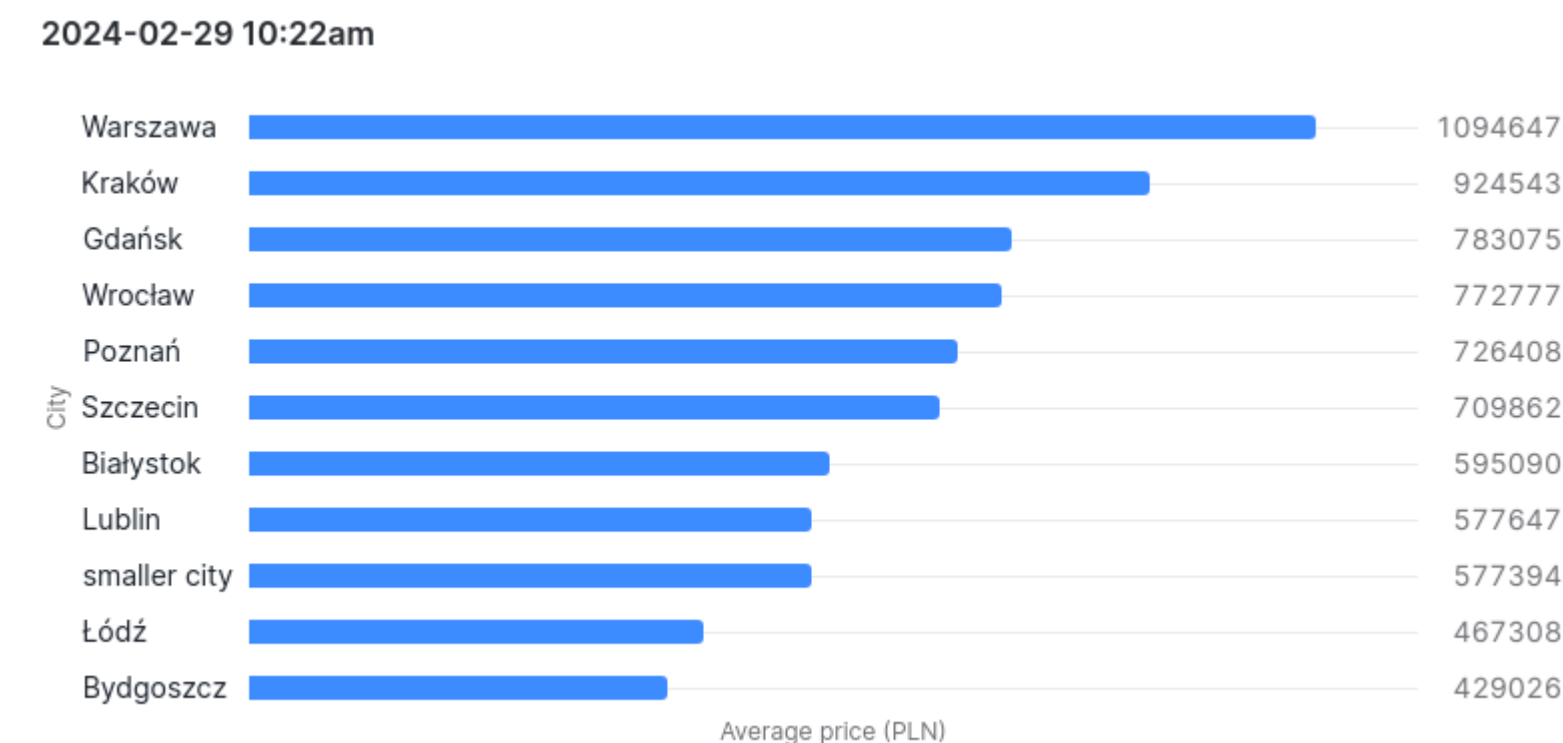
```
SELECT city_category,ROUND(avg_price_1_room,0) AS room1_price, ROUND(avg_price_2_room,0) AS rooms2_price, ROUND(a
vg_price_3_room,0) AS rooms3_price ,ROUND(avg_price_4_room,0) AS rooms4_price, ROUND(avg_price_5_room,0) AS rooms
5_price
FROM (SELECT no_of_rooms, city_category, price FROM otodom_final_3
WHERE no_of_rooms <= 5) PIVOT (AVG(price) FOR no_of_rooms IN (1,2,3,4,5))
AS RESULT (city_category, avg_price_1_room, avg_price_2_room, avg_price_3_room ,avg_price_4_room, avg_price_5_roo
m);
```

City category	One room avg price	Two rooms avg price	Three rooms avg price	Four rooms avg price	Five rooms avg price
smaller city	306 820	390 273	496 266	683 046	1 038 215
major city	535 596	613 656	820 065	1 061 361	1 574 198



Most expensive cities

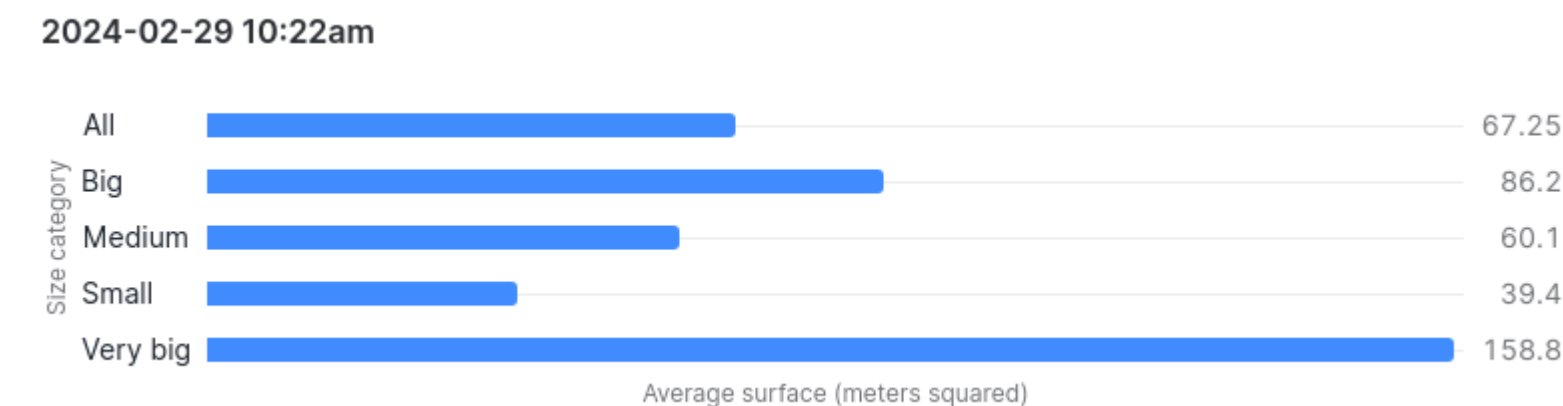
```
WITH cte AS
(SELECT city, ROUND(AVG(price),0) AS avg_sale
FROM otodom_final_5
GROUP BY city)
SELECT city, max(avg_sale) AS avg_sale
FROM cte
GROUP BY city
ORDER BY avg_sale DESC;
```



Average apartment sizes

```
SELECT 'Very big' AS apartment_size, ROUND(AVG(surface),1) AS avg_surface_m2, ROUND(AVG(price),0) AS avg_price_PL
N FROM otodom_final_5 WHERE surface >= 100
UNION
SELECT 'Big', ROUND(AVG(surface),1), ROUND(AVG(price),0) FROM otodom_final_5 WHERE surface >= 75 AND SURFACE < 100
UNION
SELECT 'Medium',ROUND(AVG(surface),1), ROUND(AVG(price),0) FROM otodom_final_5 WHERE surface >= 50 AND SURFACE <
75
UNION
SELECT 'Small',ROUND(AVG(surface),1), ROUND(AVG(price),0) FROM otodom_final_5 WHERE surface < 50
UNION
SELECT 'All', ROUND(AVG(surface),2), ROUND(AVG(price),0) AS average_surface_m2 FROM otodom_final_5;
```

Apartment size category	Average surface (meters squared)	Average price (PLN)
Very big (over 100 m2)	158.8	1 501 682
Big (75 - 100 m2)	86.2	814 331
Medium (50 - 75 m2)	60.1	604 333
All	67.25	677 032
Small (under 50 m2)	39.4	442 147



Percentage of agency, developer and private offers

```
WITH all_ads AS
(SELECT COUNT(*) AS total_ads FROM otodom_final_5),
ads_type AS
(SELECT advertiser_type
, SUM(CASE WHEN advertiser_type='developer' THEN 1 END) AS developer_ads
, SUM(CASE WHEN advertiser_type='private' THEN 1 END) AS private_ads
, SUM(CASE WHEN advertiser_type='agency' THEN 1 END) AS agency_ads
FROM otodom_final_5
GROUP BY advertiser_type)
SELECT CONCAT(ROUND((MAX(developer_ads) * 100)/MAX(total_ads),2),'%') AS developer_ads_percent
, CONCAT(ROUND((MAX(private_ads) * 100)/MAX(total_ads),2),'%') AS private_ads_percent
, CONCAT(ROUND((MAX(agency_ads) * 100)/MAX(total_ads),2),'%') AS agency_ads_percent
FROM ads_type
JOIN all_ads;
```

Developer ads percent	Private ads percent	Agency ads percent
9.85%	13.30%	76.85%