

BANGALORE HOUSE PRICE PROJECT

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SAMPLE DATA:

area_type	availability	location	size	total_sqft	bath	balcony	City	Price	BHK	ready_to_move	price_per_sqft
Super built-up Area	19-12-2024 00:00	Electronic City Phase II	2 BHK	1056	2	1	Bangalore	3907000	2	0	3699.810606
Plot Area	Ready To Move	Chikka Tirupathi	4 Bedroom	2600	5	3	Bangalore	12000000	4	1	4615.384615
Built-up Area	Ready To Move	Uttarahalli	3 BHK	1440	2	3	Bangalore	6200000	3	1	4305.555556
Super built-up Area	Ready To Move	Lingadheeranahalli	3 BHK	1521	3	1	Bangalore	9500000	3	1	6245.890861
Super built-up Area	Ready To Move	Kothanur	2 BHK	1200	2	1	Bangalore	5100000	2	1	4250
Super built-up Area	Ready To Move	Whitefield	2 BHK	1170	2	1	Bangalore	3800000	2	1	3247.863248
Super built-up Area	18-05-2024 00:00	Old Airport Road	4 BHK	2732	4	2	Bangalore	20400000	4	0	7467.057101
Super built-up Area	Ready To Move	Rajaji Nagar	4 BHK	3300	4	2	Bangalore	60000000	4	1	18181.81818
Super built-up Area	Ready To Move	Marathahalli	3 BHK	1310	3	1	Bangalore	6325000	3	1	4828.244275
Plot Area	Ready To Move	Gandhi Bazar	6 Bedroom	1020	6	2	Bangalore	37000000	6	1	36274.5098
Super built-up Area	18-02-2024 00:00	Whitefield	3 BHK	1800	2	2	Bangalore	7000000	3	0	3888.888889

#1. What is the average price per square foot for each area type?

```
SELECT area_type, round(AVG(price_per_sqft)) AS average_price_per_sqft
```

```
FROM bangalore
```

```
GROUP BY area_type;
```

area_type	average_price_per_sqft
Super built-up Area	5691
Plot Area	18200
Built-up Area	7361
Carpet Area	9266

#2.How many properties are available for each location?

```
SELECT location, COUNT(*) AS total_properties  
FROM bangalore  
GROUP BY location;
```

location	total_properties
Electronic City Phase II	132
Chikka Tirupathi	17
Uttarahalli	186
Lingadheeranahalli	23
Kothanur	66
Whitefield	539
Old Airport Road	33
Rajaji Nagar	107
Marathahalli	175
Gandhi Bazar	2
7th Phase JP Nagar	148

*Total 1289 rows returned

#3.What is the average price of properties based on the number of bedrooms (BHK)?

```
SELECT BHK, round(AVG(Price)) AS average_price  
FROM bangalore  
GROUP BY BHK order by BHK ;
```

BHK	average_price
1	4406340
2	5953360
3	11088740
4	27068700
5	28143892
6	22460455
7	24437000
8	20661364
9	24046154
10	53000000
11	20750000

#4.What percentage of properties are ready to move in?

```
SELECT  
(SUM(CASE WHEN ready_to_move = 'Yes' THEN 1 ELSE 0 END) / COUNT(*)) * 100 AS  
ready_to_move_percentage  
FROM bangalore;
```

ready_to_move_percentage
20.5816

#5.What are the top 5 locations with the highest average price?

SELECT location, round(AVG(Price)) AS average_price

FROM bangalore

GROUP BY location

ORDER BY average_price DESC

LIMIT 5;

location	average_price
Cubbon Road	190000000
Ashok Nagar	148600000
Defence Colony	116771429
Yemlur	109338889
Church Street	106800000

#6.What is the total number of bathrooms in properties grouped by area type?

SELECT area_type, SUM(bath) AS total_bathrooms

FROM bangalore

GROUP BY area_type;

area_type	total_bathrooms
Super built-up Area	21306
Plot Area	7805
Built-up Area	6345
Carpet Area	216

#7.How does the size of properties correlate with their price?

SELECT size, round(AVG(Price)) AS average_price

FROM bangalore

GROUP BY size

ORDER BY size;

size	average_price
	9892188
1 Bedroom	7071370
1 BHK	3946079
1 RK	2812231
10 Bedroom	56125000
10 BHK	34250000
11 Bedroom	16000000
11 BHK	25500000
12 Bedroom	30000000
13 BHK	27500000
14 BHK	12500000

#8. Find properties with a balcony and their average price.

```
SELECT round(AVG(Price)) AS average_price
```

```
FROM bangalore
```

```
WHERE balcony > 0;
```

average_price
11259915

#9. Which area type has the highest total square footage?

```
SELECT
```

```
area_type, SUM(total_sqft) AS total_square_footage
```

```
FROM
```

```
bangalore
```

```
GROUP BY area_type
```

```
ORDER BY total_square_footage DESC
```

```
LIMIT 1;
```

area_type	total_square_footage
Super built-up Area	13006987

#10. What is the price distribution of properties based on their location?

```
SELECT location, MIN(Price) AS min_price, MAX(Price) AS max_price, round(AVG(Price)) AS average_price
```

```
FROM bangalore
```

```
GROUP BY location;
```

location	min_price	max_price	average_price
Electronic City Phase II	1675000	29500000	4831667
Chikka Tirupathi	8027000	15000000	11501588
Uttarahalli	3000000	33000000	6125253
Lingadheeranahalli	8131000	16000000	11534826
Kothanur	3000000	55000000	9563030
Whitefield	1983000	125000000	12720715
Old Airport Road	5000000	70000000	18408030
Rajaji Nagar	6500000	220000000	32769308
Marathahalli	3500000	65000000	10221371
Gandhi Bazar	11000000	37000000	24000000
7th Phase JP Nagar	3800000	45000000	10085757

*Total 1289 records returned

#11.What are the key factors influencing house prices?

SELECT

total_sqft, BHK, price_per_sqft, Price

FROM bangalore;

total_sqft	BHK	price_per_sqft	Price
1056	2	3699.810606	3907000
2600	4	4615.384615	12000000
1440	3	4305.555556	6200000
1521	3	6245.890861	9500000
1200	2	4250	5100000
1170	2	3247.863248	3800000
2732	4	7467.057101	20400000
3300	4	18181.81818	60000000
1310	3	4828.244275	6325000
1020	6	36274.5098	37000000
1800	3	3888.888889	7000000

#12.How does the presence of a balcony affect the price of properties?

SELECT

balcony, round(AVG(Price)) AS average_price

FROM bangalore

GROUP BY balcony;

balcony	average_price
1	8562700
3	15070757
2	12452013
0	11070385

#13.How does the price of houses vary by location and area type?

SELECT

location, area_type, round(AVG(Price)) AS average_price

FROM bangalore

GROUP BY location, area_type;

location	area_type	average_price
Electronic City Phase II	Super built-up Area	4494975
Chikka Tirupathi	Plot Area	11494786
Uttarahalli	Built-up Area	5469310
Lingadheeranahalli	Super built-up Area	11534826
Kothanur	Super built-up Area	7491020
Whitefield	Super built-up Area	9145071
Old Airport Road	Super built-up Area	16938036
Rajaji Nagar	Super built-up Area	34873620
Marathahalli	Super built-up Area	9227234
Gandhi Bazar	Plot Area	37000000
Whitefield	Plot Area	26665690

#14.What is the impact of size on the overall price of a house?

SELECT

total_sqft, round(AVG(Price)) AS average_price

FROM bangalore

GROUP BY total_sqft;

total_sqft	average_price
1056	7675583
2600	22995833
1440	10626348
1521	8555000
1200	11079492
1170	5737250
2732	20066667
3300	28856250
1310	6091784
1020	5296531
1800	14342776

#15.How do prices vary with different numbers of bathrooms?

SELECT

bath, round(AVG(Price)) AS average_price

FROM bangalore

GROUP BY bath;

bath	average_price
2	6421723
5	31023273
3	12513284
4	23692727
6	28254647
1	4716670
9	28109756
8	26864063
7	30035294
11	18833333
10	21730769

#16.What are the price ranges for houses based on BHK count?

SELECT

BHK, MIN(Price) AS min_price, MAX(Price) AS max_price, round(AVG(Price)) AS average_price

FROM bangalore

GROUP BY BHK order by BHK;

BHK	min_price	max_price	average_price
1	800000	75000000	4406340
2	1050000	65000000	5953360
3	844000	200000000	11088740
4	2450000	291200000	27068700
5	4450000	273600000	28143892
6	5800000	280000000	22460455
7	5200000	220000000	24437000
8	5000000	190000000	20661364
9	7500000	120000000	24046154
10	9000000	360000000	53000000
11	15000000	36000000	20750000