

Amazon Project

Mini Using
Python and MQL

amazon /Air Conditon



1. Top 5 Most Rated Air Conditioners

```
SELECT *
FROM
AIR_CONDITIONERS
ORDER BY
NO_OF_RATINGS DESC
LIMIT
5;
```

	name character varying (300)	main_category character varying (100)	sub_category character varying (100)	ratings double precision	no_of_ratings integer	discount_price numeric (10,2)	actual_price numeric (10,2)
1	Ontel Arctic Air Freedom Portable Personal Air Cooler, Small	appliances	Air Conditioners	3.8	9577	0.00	5065.00
2	Panasonic 1.5 Ton 5 Star Wi-Fi Inverter Smart Split AC (Copper Condenser, 7 in 1 Convertib...	appliances	Air Conditioners	4.3	5073	45990.00	63400.00
3	Whirlpool 1.5 Ton 3 Star, Flexicool Inverter Split AC (Copper, Convertible 4-in-1 Cooling Mo...	appliances	Air Conditioners	3.9	3670	31990.00	62000.00
4	Whirlpool 1.5 Ton 5 Star, Flexicool Inverter Split AC (Copper, Convertible 4-in-1 Cooling Mo...	appliances	Air Conditioners	4	3604	38990.00	70600.00
5	LG 1.5 Ton 5 Star Inverter Split AC (Copper, Super Convertible 5-in-1 Cooling, HD Filter, 202...	appliances	Air Conditioners	4.4	3562	53775.00	67990.00

2. Air Conditioners with Rating Above 4.5

```
SELECT
*
FROM
AIR_CONDITIONERS
WHERE
RATINGS > 4.5;
```

	<div>name</div> <div>character varying (300)</div>	<div>main_category</div> <div>character varying (100)</div>	<div>sub_category</div> <div>character varying (100)</div>	<div>ratings</div> <div>double precision</div>	<div>no_of_ratings</div> <div>integer</div>	<div>discount_price</div> <div>numeric (10,2)</div>	<div>actual_price</div> <div>numeric (10,2)</div>
1	Voltas 2 Ton 3 Star, Inverter Split AC(Copper, 4-in-1 Adjustable Mode, Anti-dust Filter, 2023 ...	appliances	Air Conditioners	4.6	3	44990.00	79990.00
2	Samsung 1 Ton 3 Star Wi-fi Enabled, Wind-Free Technology Inverter Split AC (Copper, Conv...	appliances	Air Conditioners	4.6	8	34699.00	53990.00
3	Hitachi Split Ac - 1.5 Ton Kiyora 5200Fx I Fresh Inverter - R32 - RSRG518FFEO (Gold)	appliances	Air Conditioners	5	1	42240.00	71900.00
4	Panasonic 2 Ton 5 Star Wi-Fi Inverter Smart Split AC (Copper, 7 in 1 Convertible with additi...	appliances	Air Conditioners	5	1	66990.00	87900.00
5	Panasonic 1.5 Ton 3 Star Hot and Cold Wi-Fi Inverter Smart Split AC (Copper, 7 in 1 Convert...	appliances	Air Conditioners	5	2	43990.00	61400.00

3. Average Discount Percentage

```
SELECT
AVG(
  (ACTUAL_PRICE - DISCOUNT_PRICE) * 100.0 /
  ACTUAL_PRICE
) AS AVG_DISCOUNT_PERCENT
FROM
  AIR_CONDITIONERS
WHERE
  ACTUAL_PRICE != 0;
```

	avg_discount_percent numeric
1	36.06595163900476798324

4. NUMBER OF Products in Each Subcategory

```
SELECT
  SUB_CATEGORY,
  COUNT(*) AS TOTAL_PRODUCT
FROM
  AIR_CONDITIONERS
GROUP BY
  SUB_CATEGORY
ORDER BY
  TOTAL_PRODUCT DESC;
```

	sub_category character varying (100)	total_product bigint
1	Air Conditioners	710

5. Cheapest 5 Air Conditioners

```
SELECT
  NAME,
  DISCOUNT_PRICE
FROM
  AIR_CONDITIONERS
WHERE
  DISCOUNT_PRICE != 0
ORDER BY
  DISCOUNT_PRICE ASC
LIMIT
  5;
```

	<div>name</div> <div>character varying (300)</div>	<div>discount_price</div> <div>numeric (10,2)</div>
1	RISARYA H20R1203 IGBT 1PCS POWER TRANSISTOR 20A 1200V REVERSE CONDUCTING HEATING AND WIDELY USED IN...	199.00
2	Hexzone® TAFTA Outdoor Ac Stand (Wall)	599.00
3	AC Stand/Heavy Duty Air Conditioner Outdoor Unit Mounting Bracket	599.00
4	ALLWIN TAFTA High Quality Metal Special Coated Floor Mounted Split Outdoor AC Stand for 1 Ton, 1.1 Ton, 1.2 Ton, 1.5 T...	647.00
5	Hexzone Floor AC Stand Certified Special Coated Super Quality Split Ac Air Conditioner Outdoor Unit Stand for 1 Ton, 1.1 T...	679.00

6. Most Expensive Products (by Actual Price)

```
SELECT
  NAME,
  ACTUAL_PRICE
FROM
  AIR_CONDITIONERS
ORDER BY
  ACTUAL_PRICE DESC
LIMIT
  5;
```

	name character varying (300)	actual_price numeric (10,2)
1	Voltas 3Ph Scroll SAC C2-NVenture I-Cassette AC (4 Ton White)	149000.00
2	Voltas Venture Slimline Tower AC (3 Ton White)	128900.00
3	Voltas Venture i Cassette 3Ph Scroll SAC(C2-N) (3 Ton)	120490.00
4	MEGACOOOL CENTRE-Dakin 1 Ton 3 Star Fixed Speed Split AC Pack Of- (1)	119000.00
5	Blue Star 2.0 Ton 3 Star Inverter Cassette SAC (Cool Only) ID324MATUR1 AC (Copper, Multiple)	109800.00

7. Products with No Ratings Yet

```
SELECT
  NAME,
  RATINGS
FROM
  AIR_CONDITIONERS
WHERE
  RATINGS = 0;
```

	<div>name</div> <div>character varying (300)</div>	<div>ratings</div> <div>double precision</div>
1	Lloyd 1.5 Ton 3 Star Fixed Speed Window Ac (Copper, 2023 Model, White With Silver Deco Strip, Glw18C3Ywsew)	0
2	Samsung 1 Ton 5 Star Inverter Split AC (Copper, Convertible 5-in-1 Cooling Mode, Anti-bacterial Filter, 2023 Model AR12CY...	0
3	Haier 1.5 Ton 3 Star Frost Self Clean Inverter Split AC(100% Grooved copper, Super Anti-corrosion, 2023 Model, HSU17V-T...	0
4	Lloyd 2.0 Ton 3 Star Inverter Split Ac (5 In 1 Convertible, Copper, Anti-Viral + Pm 2.5 Filter, 2023 Model, White With Sil...	0
5	Voltas 1.5 Ton 3 Star, Fixed Speed Window AC (Copper, Turbo Mode, 2023 Model, 183 Vectra Pearl, White)	0


8. Total Number of Products and Average Price

```
SELECT
  COUNT(*) AS TOTAL_NUMBER_OF_PRODUCT,
  ROUND(AVG(ACTUAL_PRICE), 2) AS AVERAGE_PRICE
FROM
  AIR_CONDITIONERS;
```

	total_number_of_product bigint	average_price numeric
1	710	37806.02

9. Compare Average Ratings per Subcategory

```
SELECT
SUB_CATEGORY,
ROUND(AVG(RATINGS)::NUMERIC, 2) AS AVERAGE_RATINGS
FROM
AIR_CONDITIONERS
GROUP BY
SUB_CATEGORY;
```

	sub_category character varying (100) 	average_ratings numeric 
1	Air Conditioners	2.27

10. Products with Over 1000 Ratings and Rating Above 4.3

```
SELECT
NAME,
NO_OF_RATINGS,
RATINGS
FROM
AIR_CONDITIONERS
WHERE
NO_OF_RATINGS > 1000
AND RATINGS > 4.3;
```

	name character varying (300)	no_of_ratings integer	ratings double precision
1	LG 1.5 Ton 5 Star Inverter Split AC (Copper, Super Convertible 5-in-1 Cooling, HD Filter, 2021 Model, MS-Q18WNZA, White)	3562	4.4

THANK YOU

TO BE CONTINUED

BY Tobi Blawas

