**Case Study 1: Amazon Data**

1. What is the average discount percentage by product category?



2. How many products are listed under each category?



3. What is the total number of reviews per category?



4. Which products have the highest average ratings?



The product that has the highest average rating is **Office Product** with average rating of 4.31

5. What is the average actual price vs the discounted price by category?



6. Which products have the highest number of reviews?



The product with highest number of review is Electronics with **490** count of review

7. How many products have a discount of 50% or more?

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column Labels** |  |  |
|  | **<50%** | **>50%** | **Grand Total** |
| **Count of High Discount** | **689** | **662** | **1351** |

**662** products have a discount of 50% or more

8. What is the distribution of product ratings (e.g., how many products are rated 3.0,  
4.0, etc.)?

     
9. What is the total potential revenue (actual\_price × rating\_count) by category?

|  |  |
| --- | --- |
| **Row Labels** | **Sum of Potential Revenue** |
| Car & Motorbike | 4,472,000.00 |
| Computers & Accessories | 11,628,224,483.00 |
| Electronics | 91,323,918,321.00 |
| Health & PersonalCare | 6,959,700.00 |
| Home & Kitchen | 10,459,722,337.00 |
| HomeImprovement | 6,163,434.00 |
| MusicalInstruments | 151,117,062.00 |
| OfficeProducts | 60,778,817.00 |
| Toys & Games | 2,380,050.00 |
| **Grand Total** | **113,643,736,204.00** |

10. What is the number of unique products per price range bucket (e.g., <₹200,





