3. **Imagine you work for amazon, what is the Meta data information you will store for an item in your Database. For E.g. the item is a shirt, once you have stored the Meta data how will use the information?**

I have listed below the metadata of the item. I will store it for better functionality. I have used an example to demonstrate it better.

The table provides an overview of the metadata attributes typically I will store for an item on Amazon, using a shirt as an example. Each row represents a specific metadata attribute, while the columns describe the attribute name, its purpose, and an example value.

The way I will use the information:

Once I store the metadata for an item, it can be used in a variety of ways to improve the customer experience, manage inventory, and optimize sales. Here I listed some of them:

- **Make products easier to find** by including relevant keywords in the metadata, I can ensure your products show up higher in search results when customers are looking for something specific.
- **Help customers choose the perfect product** with detailed descriptions, accurate sizing information, and high-quality images in the metadata I can provide customers all the details they need to make informed decisions.
- **Show off products in the best light** by compelling product descriptions and captivating images based on the metadata I will make products stand out on the Amazon marketplace.
- **Keep track of my inventory** with stock levels stored in the metadata, I can always know exactly how much of each item I have in stock, preventing overselling and ensuring smooth customer fulfillment.
- **I can understand what's selling well** by reviewing sales rank and review data in the metadata I can identify popular products and areas for improvement. This allows me to optimize pricing, promotions, and potentially even develop new products based on customer preferences.
- **Can Predict future demand** when we analyze historical sales data and product attributes to forecast future demand and adjust inventory levels accordingly. This helps us avoid stockouts and capitalize on peak selling seasons.
- **Personalize the shopping experience** by leveraging the metadata to tailor marketing campaigns and product recommendations based on a customer's past purchases and browsing behavior. This creates a more personalized shopping experience that can lead to increased sales.
- **Gain valuable insights** by analyzing the vast amount of metadata and gain valuable insights into customer behavior and market trends. This knowledge can inform product development strategies and marketing efforts.

The Metadata I will store with an example:

Attribute	Description	Example
ASIN	Amazon Standard Identification Number	B001234567
SKU	Stock Keeping Unit	ABC-SHIRT-123
UPC	Universal Product Code	123456789012
Brand	Name of the shirt's manufacturer	Wrangler
Title	Descriptive product name	Men's Long-Sleeve Western Snap Button Shirt
Description	Detailed information about the shirt	100% cotton, relaxed fit, two chest pockets, pearl snaps. Perfect for casual wear or western-themed events.
Category	Product taxonomy	Clothing > Men's Clothing > Shirts > Western Shirts
Size	Available sizes	S, M, L, XL, XXL
Color	Available color options	Black, Blue Denim
Price	Current selling price	2999
Stock	Available inventory levels	In stock (all sizes)
Sales Rank	Ranking of the shirt compared to other similar products	#234 in Men's Western Shirts
Reviews	Average rating and number of customer reviews	4.5 stars (out of 5) from 1,234 reviews
Material	Fabric composition	100% Cotton
Sleeve Length	Short sleeve, long sleeve, etc.	Long Sleeve
Neck Style	Crew neck, V-neck, etc.	Spread Collar
Fit	Regular fit, slim fit, etc.	Relaxed Fit
Care Instructions	Washing and drying instructions	Machine wash cold, tumble dry low
Search Keywords	Relevant keywords to improve search ranking	western shirt, cowboy shirt, snap button shirt, Wrangler shirt
Images	High-quality product images from various angles	
Dimensions	Measurements of the shirt (e.g., chest width, sleeve length)	Available in a size chart linked in the description
Country of Origin	Where the shirt was manufactured	Made in Vietnam
Warranty Information	Any warranty offered by the manufacturer	Limited lifetime warranty on snaps