

Bike Sales Project

Project link: <https://1drv.ms/x/c/64d78f92690b3726/IQCMIL4bW3kvwTYd74yEv2-KBAVokAZMdJxXs1gWFKpnB1Uc?e=6TTFU1>

- **Problem Statement:** The objective is to find out what makes people buy bikes. We will look at how gender and income affect sales, whether travel distance matters, and which age groups are the biggest buyers.

Data Source & Methodology

- **Source:** Customer dataset (1,000+ records) sourced via GitHub.
- **Tools:** Microsoft Excel (Web Version).
- **Process:**
 - **Data Hygiene:** Removed duplicate entries and standardized fields (e.g., converting "M/F" to "Male/Female").
 - **Formatting:** Converted income data to currency and eliminated decimal redundancies for cleaner visualization.
 - **Data Transformation:** Employed nested IF statements to categorize ages into "Young Adult," "Middle Age," and "Old."
 - **Analysis:** Utilized Pivot Tables to aggregate data and Excel Slicers to create an interactive dashboard for multi-dimensional analysis.

Average of Income	Purchased Bike	Grand Total	
Gender	No	Yes	
Female	\$53,440	\$55,774	\$54,581
Male	\$56,208	\$60,124	\$58,063
Grand Total	\$54,875	\$57,963	\$56,360

Count of Purchased Bike		Purchased Bike		
Commute Distance	No	Yes	Grand Total	
0-1 Miles		166	200	366
1-2 Miles		92	77	169
2-5 Miles		67	95	162
5-10 Miles		116	76	192
More than 10 Miles		78	33	111
Grand Total		519	481	1000

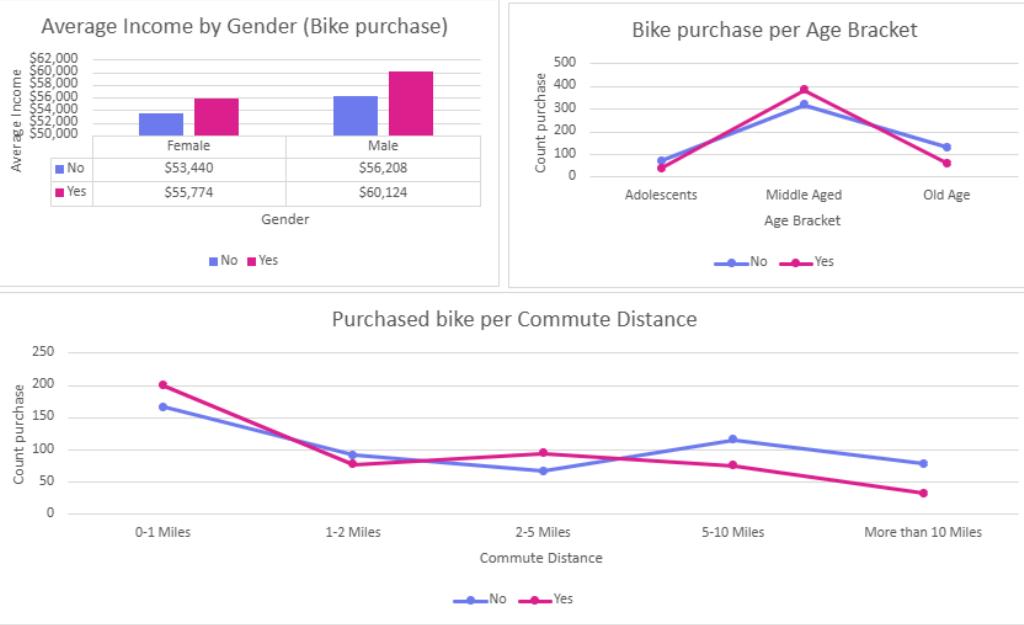
3				
4				
Count of Purchased Bike	Purchased Bike			
Age Bracket	No	Yes	Grand Total	
Adolescents		71	39	110
Middle Aged		318	383	701
Old Age		130	59	189
Grand Total		519	481	1000
1				
2				

Marital Status	Married
	Single
Region	Europe
	North America
	Pacific
Education	Bachelors
	Graduate Degree
	High School
	Partial College
	Partial High School

Key Findings

- **Income, Occupation and Gender:** High-income male professionals (averaging \$55k+) demonstrate the highest purchasing rates.
- **Commute Patterns:** Customers with short commutes (0–1 miles) are the most frequent buyers, suggesting bikes are used for "last-mile" transport or local leisure.
- **Age:** The "Middle Age" category represents the largest market segment.

Bike Sales Dashboard



Business Impact & Recommendations

- Strategic Marketing:** Focus on digital advertising spending on high-income homeowners within the identified "Middle Age" bracket.
- Product Bundling:** Promote commuter-friendly accessories (lights, locks, baskets) to the 0–1 mile commute segment.