

# TopoQuery Pipeline

*Explainable Query Recommendations via Persistent Homology*

**1. DATABASE**  
Palmer Penguins  
333 rows

**2. QUERIES**  
31 SQL  
Statements

**3. FEATURES**  
41-D Vectors  
Extracted

**4. DISTANCES**  
Euclidean  
Cosine, etc.

**5. TOPOLOGY**  
Persistent  
Homology

**6. RECOMMEND**  
Similar  
Queries

**7. VISUALIZE**  
Diagrams &  
Plots