



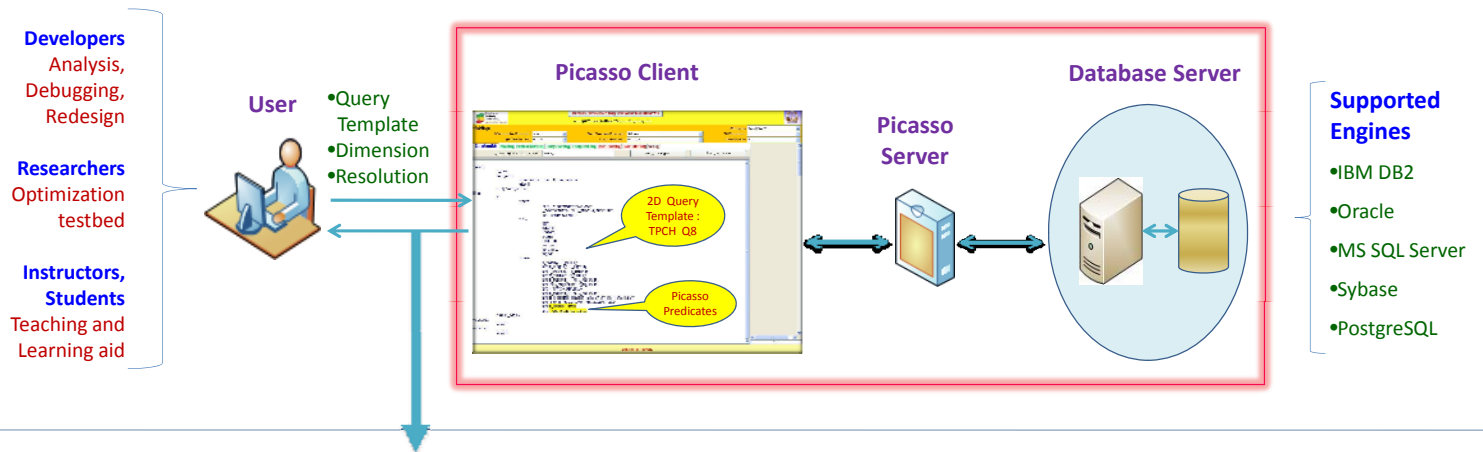
Introduction

Picasso[1] is a graphical tool for visualizing the behavior of modern database query optimizers.

Picasso takes as input a 'query template' that defines a relational selectivity space, and an optimizer, and generates a suite of diagrams that characterize the behavior of the optimizer over this space.

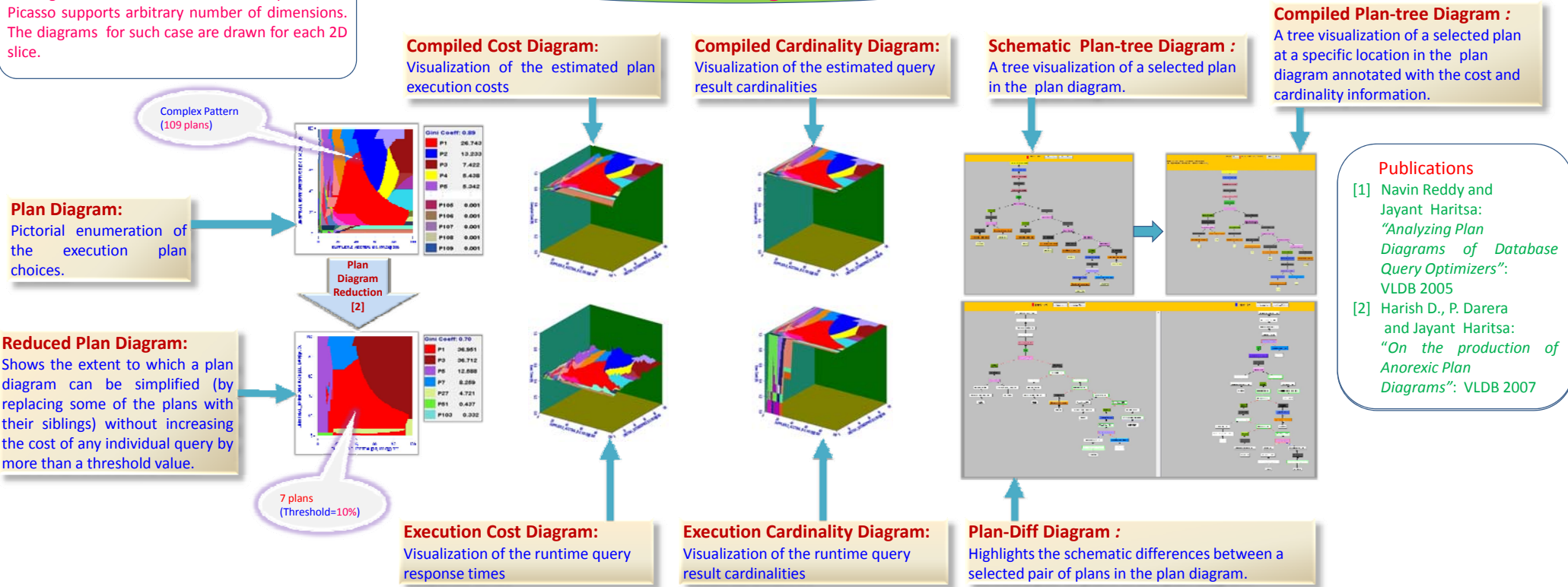
The diagrams produced on decision support query templates have provided a variety of interesting insights, often challenging the conventional wisdom.

Three Tier Architecture of Picasso



All diagrams shown here are for 2D templates, but Picasso supports arbitrary number of dimensions. The diagrams for such case are drawn for each 2D slice.

Picasso Diagrams



Publications

- Navin Reddy and Jayant Haritsa: "Analyzing Plan Diagrams of Database Query Optimizers": VLDB 2005
- Harish D., P. Darera and Jayant Haritsa: "On the production of Anorexic Plan Diagrams": VLDB 2007