A quick taste: Explaining outputs in modern data analytics [VLDB2016]

Declarative Datalog debugging for mere mortals [S. Köhler et al.]

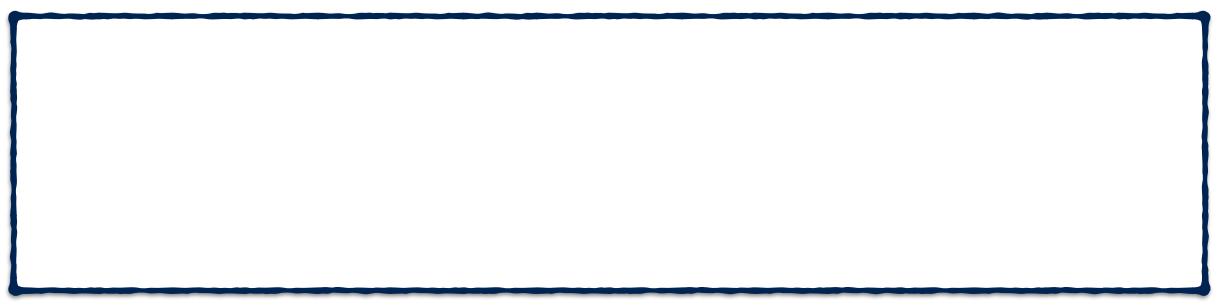
"Describe provenance/lineage as Datalog queries"

Replace "Datalog" with Differential Dataflow: 1. More expressive (e.g. Map/Reduce/Aggr), 2. Incrementally maintained.

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Explanations:

For a target subset of the observed output,

identify a subset of the input such that:

compute yields output containing the subset.