

SQuID GUI

Input

Explanation

Result

The screenshot shows the SQuID GUI interface with three main panels:

- Input:** A window titled "Example Tuples" with a "#Columns:" dropdown set to "1" and a "Reset" button. It contains a list of names: Jonah Hill, Steve Carell, Seth Rogen, Adam Sandler, and Will Smith. Below the list is an "Insert Row" button.
- Explanation:** A tree view showing a hierarchical breakdown of the input. The root is "person", which is expanded to show "gender" (checked, Male), "birth_country" (checked, USA), "role" (checked, actor), "genre" (checked, Comedy), and "language" (checked, English). A dashed box highlights the "person" node and its children.
- Result:** A window titled "Result Tuples" showing a list of names: Bill Hader, Brad Pitt, Brendan Fraser, David Koechner, Fisher Stevens, Ice Cube, Jack Black, James Franco, James Marsden, Jason Bateman, Jim Carrey, John C. Reill, John Carroll Lynch, John Cusack, Johnny Depp, Jon Favreau, Jonah Hill, Kevin Hart, Lex Lang, Matthew McConaughey, and Owen Wilson. Below the list is a "Show Query" button.

At the bottom of the GUI are four buttons: "Discover Query Intent", "Execute Query", "Submit Feedback", and "Show Query".

Offline precomputation

Meta-information

Online intent discovery

derived relations
schema information

Database

SQL query

```
SELECT DISTINCT p.name
FROM person p, person_to_castinfo_role_id r, person_to_country c,
person_to_genre g, person_to_language l
WHERE (p.gender = 'Male') AND
(r.role_id = 1 AND r.freq >= 35) AND (r.person_id = p.id) AND
(c.country_id = 198 AND c.freq >= 42) AND (c.person_id = p.id) AND
(g.genre_id = 18 AND g.freq >= 22) AND (g.person_id = p.id) AND
(l.language_id = 162 AND l.freq >= 42) AND (l.person_id = p.id)
```

Semantic property statistics