*Disclaimer: this demonstration shows what the UI might look like, had I made more progress
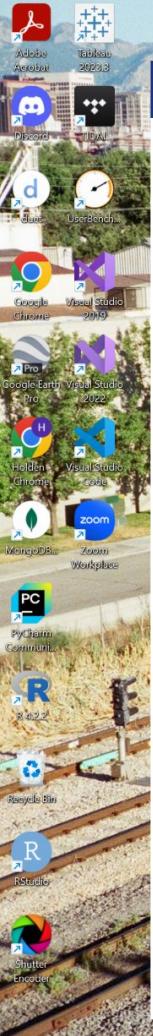
SENSE

Connect to a database
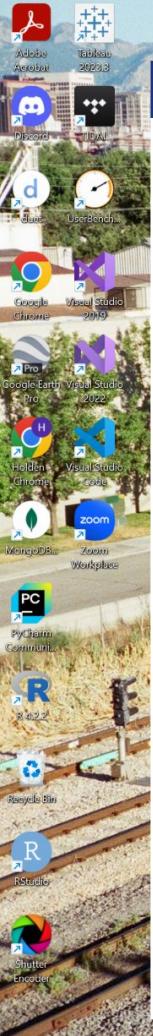
```
Host:
```

SENSE

Connect to a database

```
Host: localhost
```

SENSE

Connect to a database

```
Host: localhost
Port:
```

SENSE

Connect to a database

```
Host: localhost
Port: 5432
```

SENSE

Connect to a database

```
Host: localhost
Port: 5432
User:
```

SENSE

Connect to a database

```
Host: localhost
Port: 5432
User: postgres
```

SENSE

Connect to a database

```
Host: localhost
Port: 5432
User: postgres
Password:
```
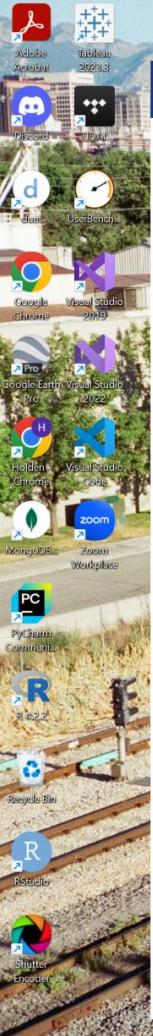
SENSE

Connect to a database

```
Host: localhost
Port: 5432
User: postgres
Password: **********
```

SENSE

Connect to a database
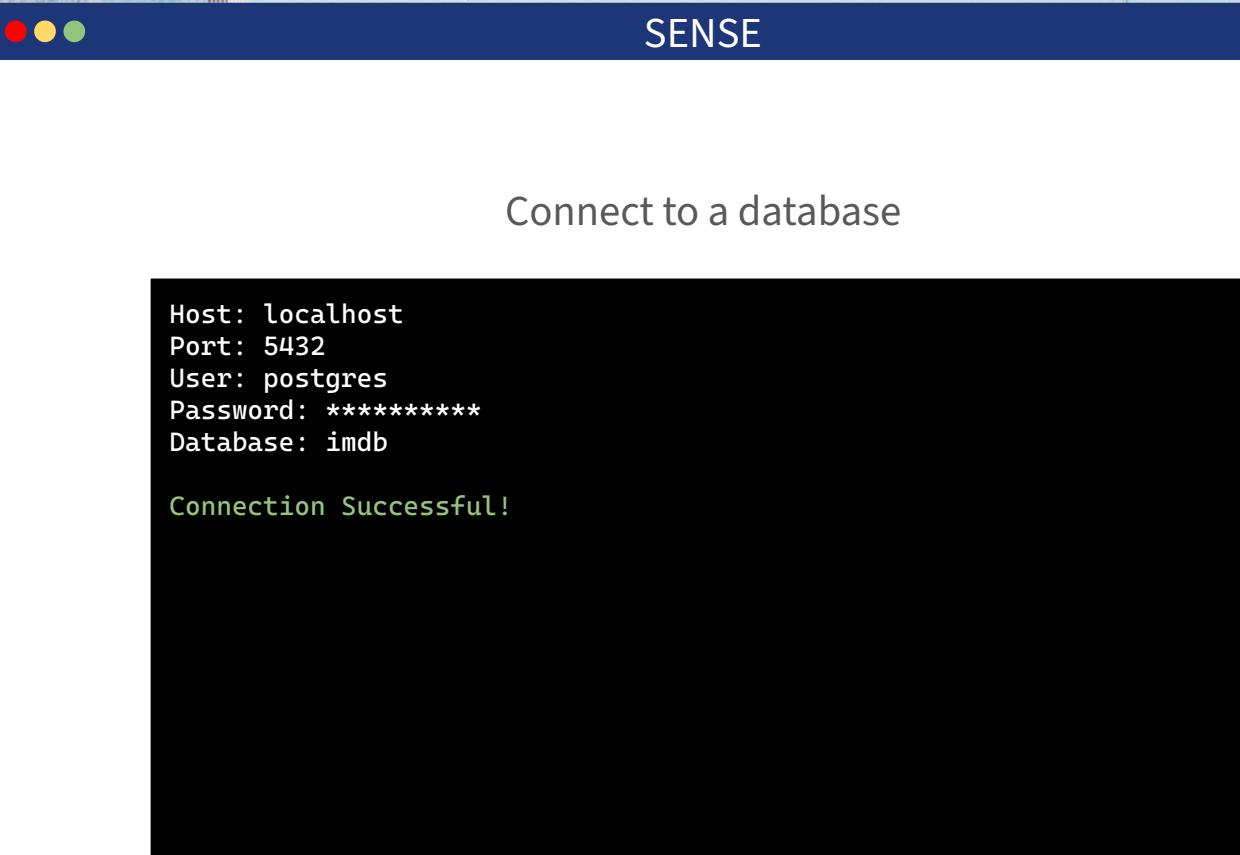
```
Host: localhost
Port: 5432
User: postgres
Password: **********
Database:
```

SENSE

Connect to a database

```
Host: localhost
Port: 5432
User: postgres
Password: **********
Database: imdb
```

SENSE

Connect to a database

```
Host: localhost
Port: 5432
User: postgres
Password: **********
Database: imdb

Connection Successful!
```

SENSE

< connect to a different database

Edit and run queries

Semantic error options		
Text errors ☐	Show valid query examples ☐	Correction suggestions ☐

> ▮

SENSE

< connect to a different database

Edit and run queries

Semantic error options		
Text errors ☐	Show valid query examples ☐	Correction suggestions ☐

```
> (SELECT a.id, a.fname, a.lname FROM actor a) EXCEPT
```

SENSE

< connect to a different database

Edit and run queries

Semantic error options

Text errors ☐　　　Show valid query examples ☐　　　Correction suggestions ☐

```
> (SELECT a.id, a.fname, a.lname FROM actor a) EXCEPT (SELECT DISTINCT
  ac.id, ac.fname, ac.lname FROM actor_casts ac JOIN genre g ON ac.mid =
  g.mid JOIN AND
```

< connect to a different database

Edit and run queries

Semantic error options

Text errors ☐   Show valid query examples ☐   Correction suggestions ☐

```
> (SELECT a.id, a.fname, a.lname FROM actor a) EXCEPT (SELECT DISTINCT
  ac.id, ac.fname, ac.lname FROM actor_casts ac JOIN genre g ON ac.mid =
  g.mid JOIN directed d ON d.mid = ac.mid WHERE g.genre = 'Action' AND
  d.fname = 'Steven' AND d.lname = 'Spielber');
```

SENSE

Edit and run queries

Semantic error options

Text errors ■   Show valid query examples ☐   Correction suggestions ☐

```
> (SELECT a.id, a.fname, a.lname FROM actor a) EXCEPT (SELECT DISTINCT
  ac.id, ac.fname, ac.lname FROM actor_casts ac JOIN genre g ON ac.mid =
  g.mid JOIN directed d ON d.mid = ac.mid WHERE g.genre = 'Action' AND
  d.fname = 'Steven' AND d.lname = 'Spielber');
```
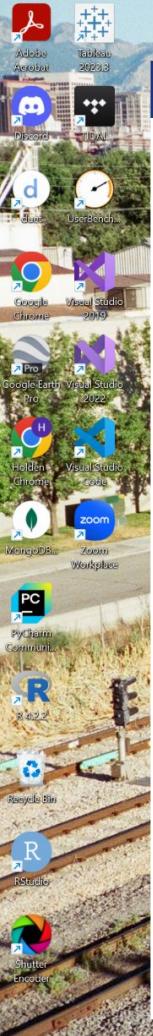
SENSE

< connect to a different database

Edit and run queries

Semantic error options

Text errors ■   Show valid query examples ☐   Correction suggestions ☐

```
> (SELECT a.id, a.fname, a.lname FROM actor a) EXCEPT (SELECT DISTINCT
  ac.id, ac.fname, ac.lname FROM actor_casts ac JOIN genre g ON ac.mid =
  g.mid JOIN directed d ON d.mid = ac.mid WHERE g.genre = 'Action' AND
  d.fname = 'Steven' AND d.lname = 'Spielber');

There is no entry in the column directed.lname with value 'Spielber'

> Execute original query (O), edit original query (E), write new query (N) ■
```
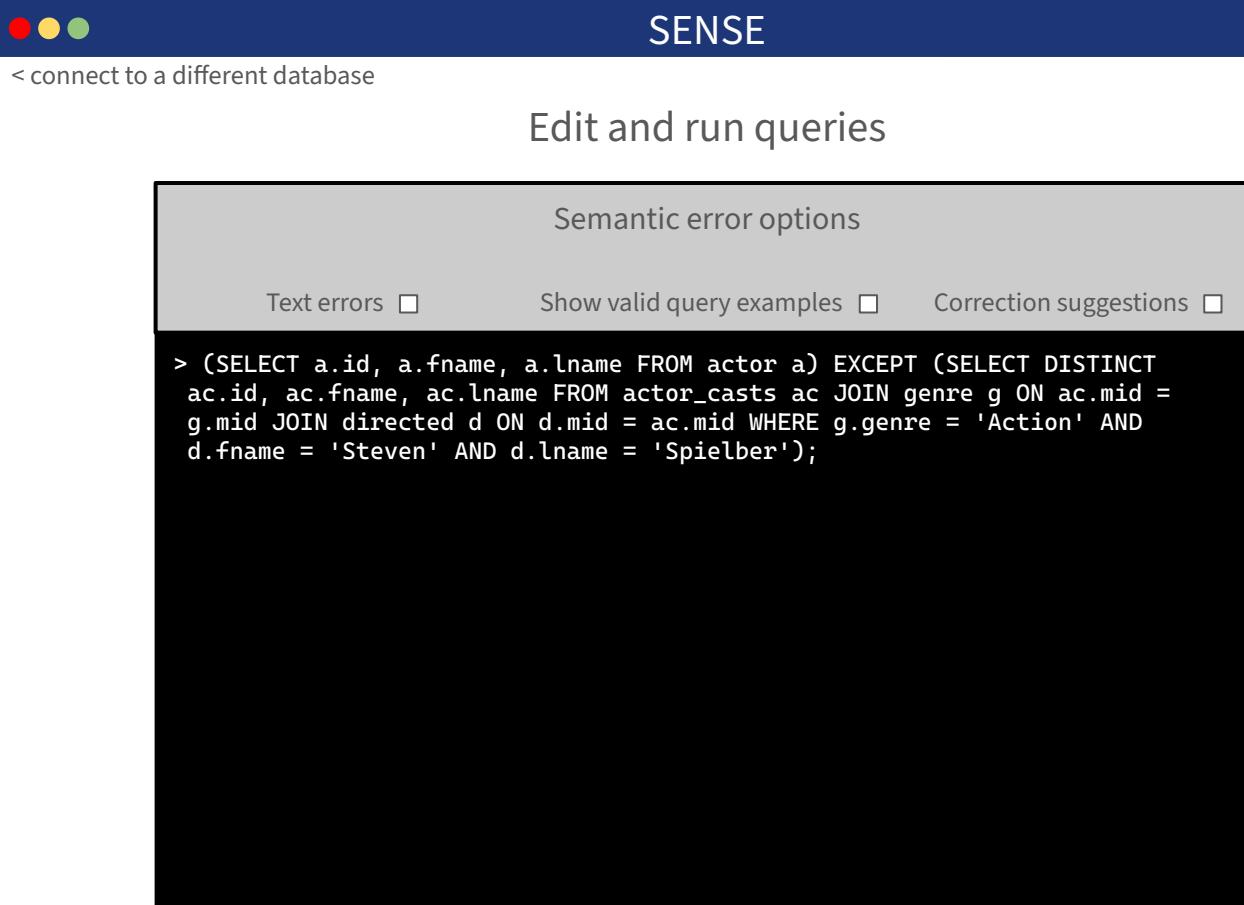
SENSE

Edit and run queries

Semantic error options
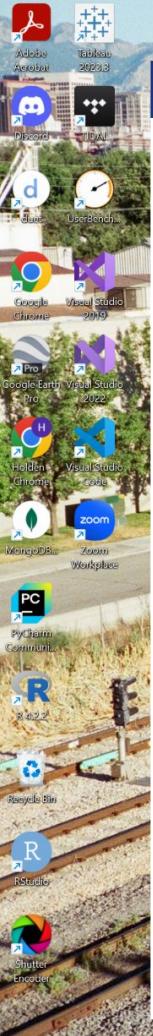
Text errors ■   Show valid query examples ☐   Correction suggestions ■

```
> (SELECT a.id, a.fname, a.lname FROM actor a) EXCEPT (SELECT DISTINCT
  ac.id, ac.fname, ac.lname FROM actor_casts ac JOIN genre g ON ac.mid =
  g.mid JOIN directed d ON d.mid = ac.mid WHERE g.genre = 'Action' AND
  d.fname = 'Steven' AND d.lname = 'Spielber');

There is no entry in the column directed.lname with value 'Spielber'

> Execute original query (O), edit original query (E), write new query (N)█
```

SENSE

Edit and run queries

Semantic error options
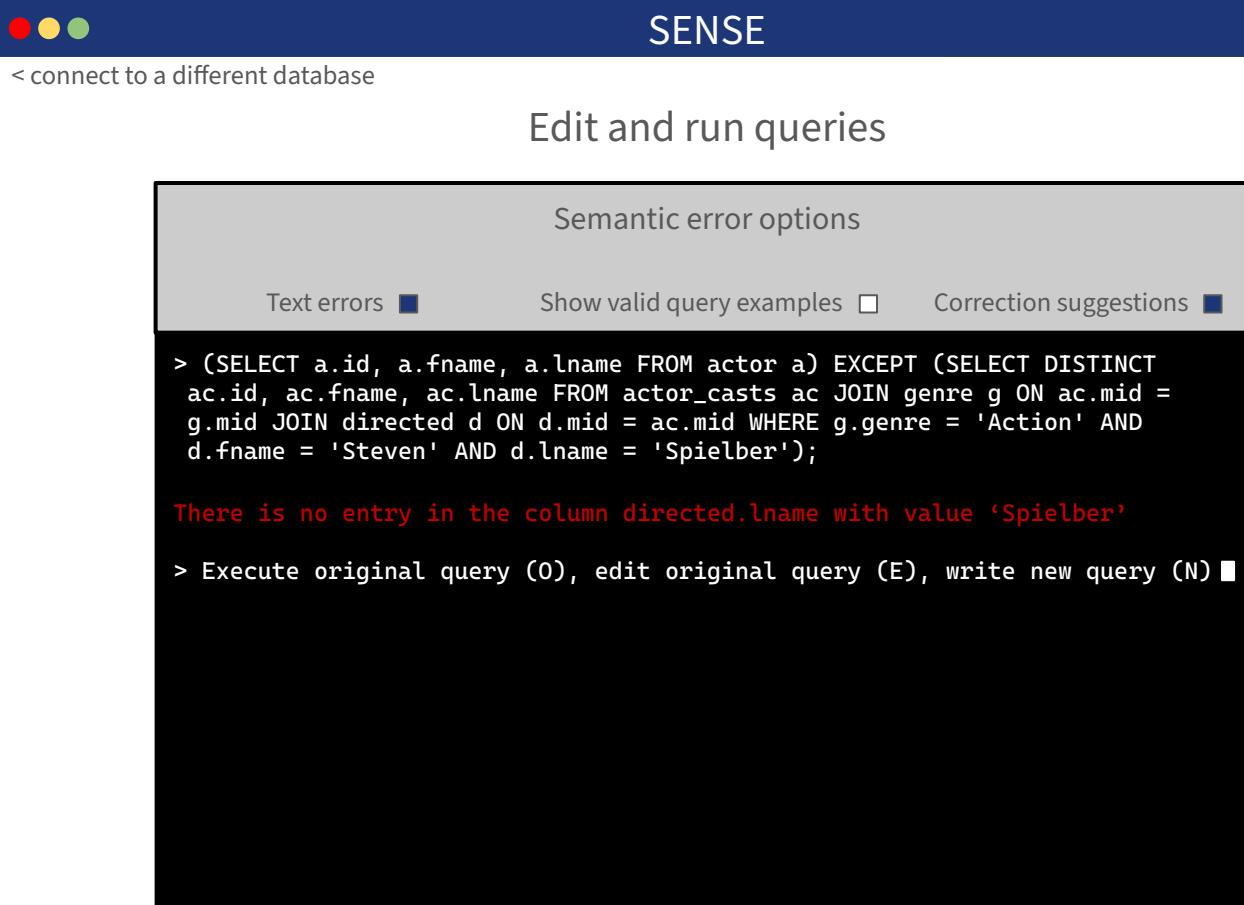
Text errors ■   Show valid query examples ☐   Correction suggestions ■

```
> (SELECT a.id, a.fname, a.lname FROM actor a) EXCEPT (SELECT DISTINCT
  ac.id, ac.fname, ac.lname FROM actor_casts ac JOIN genre g ON ac.mid =
  g.mid JOIN directed d ON d.mid = ac.mid WHERE g.genre = 'Action' AND
  d.fname = 'Steven' AND d.lname = 'Spielber');

There is no entry in the column directed.lname with value 'Spielber'.
Consider replacing 'Spielber' with 'Spielberg'

> Execute original query (O), edit original query (E), write new query (N) ■
```

< connect to a different database

Edit and run queries

Semantic error options

Text errors ■   Show valid query examples ■   Correction suggestions ■

```
> (SELECT a.id, a.fname, a.lname FROM actor a) EXCEPT (SELECT DISTINCT
  ac.id, ac.fname, ac.lname FROM actor_casts ac JOIN genre g ON ac.mid =
  g.mid JOIN directed d ON d.mid = ac.mid WHERE g.genre = 'Action' AND
  d.fname = 'Steven' AND d.lname = 'Spielber');

There is no entry in the column directed.lname with value 'Spielber'.
Consider replacing 'Spielber' with 'Spielberg'

> Execute original query (O), edit original query (E), write new query (N) ■
```

SENSE

< connect to a different database

Edit and run queries

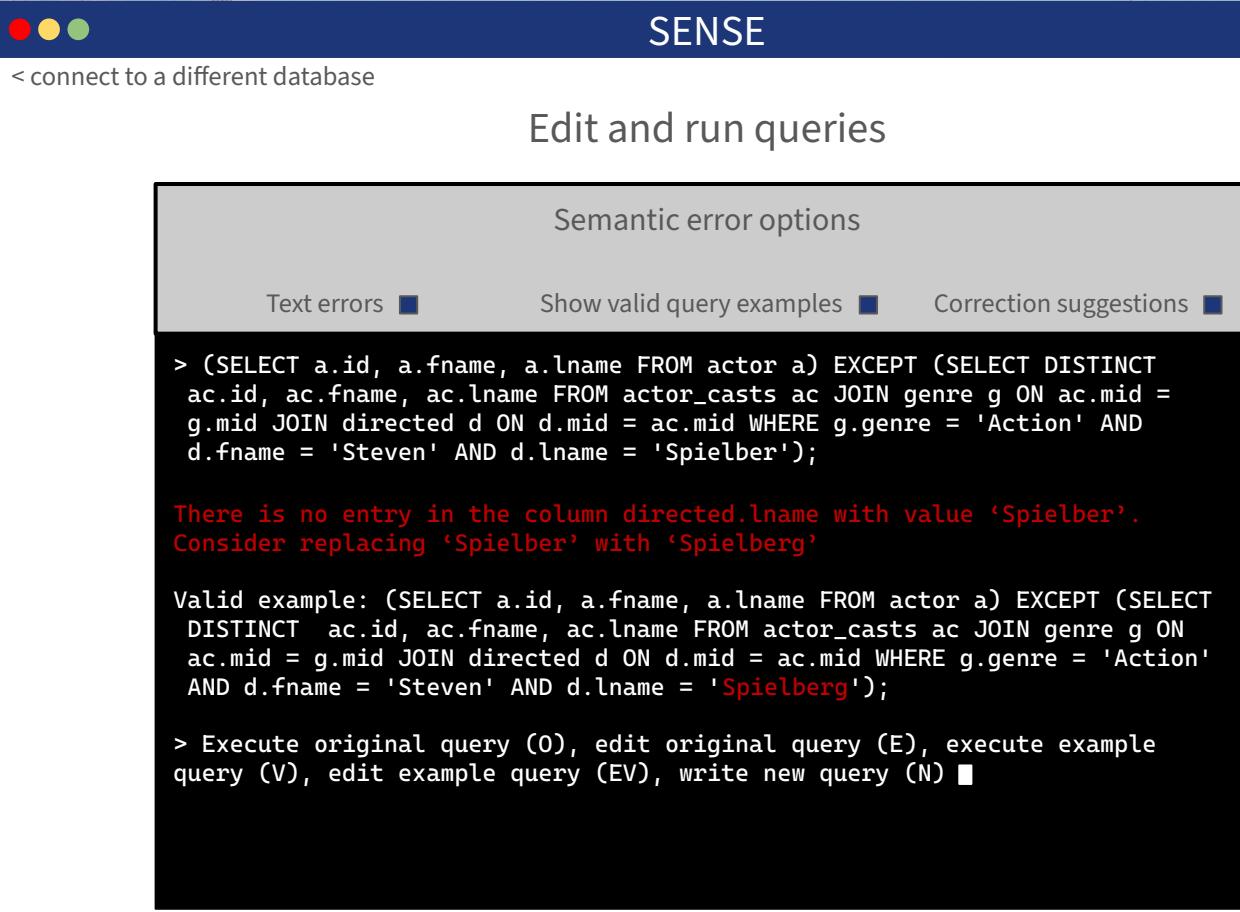| Semantic error options		
Text errors ■	Show valid query examples ■	Correction suggestions ■

```
> (SELECT a.id, a.fname, a.lname FROM actor a) EXCEPT (SELECT DISTINCT
  ac.id, ac.fname, ac.lname FROM actor_casts ac JOIN genre g ON ac.mid =
  g.mid JOIN directed d ON d.mid = ac.mid WHERE g.genre = 'Action' AND
  d.fname = 'Steven' AND d.lname = 'Spielber');

There is no entry in the column directed.lname with value 'Spielber'.
Consider replacing 'Spielber' with 'Spielberg'

Valid example: (SELECT a.id, a.fname, a.lname FROM actor a) EXCEPT (SELECT
  DISTINCT  ac.id, ac.fname, ac.lname FROM actor_casts ac JOIN genre g ON
  ac.mid = g.mid JOIN directed d ON d.mid = ac.mid WHERE g.genre = 'Action'
  AND d.fname = 'Steven' AND d.lname = 'Spielberg');

> Execute original query (O), edit original query (E), execute example
query (V), edit example query (EV), write new query (N) ■
```
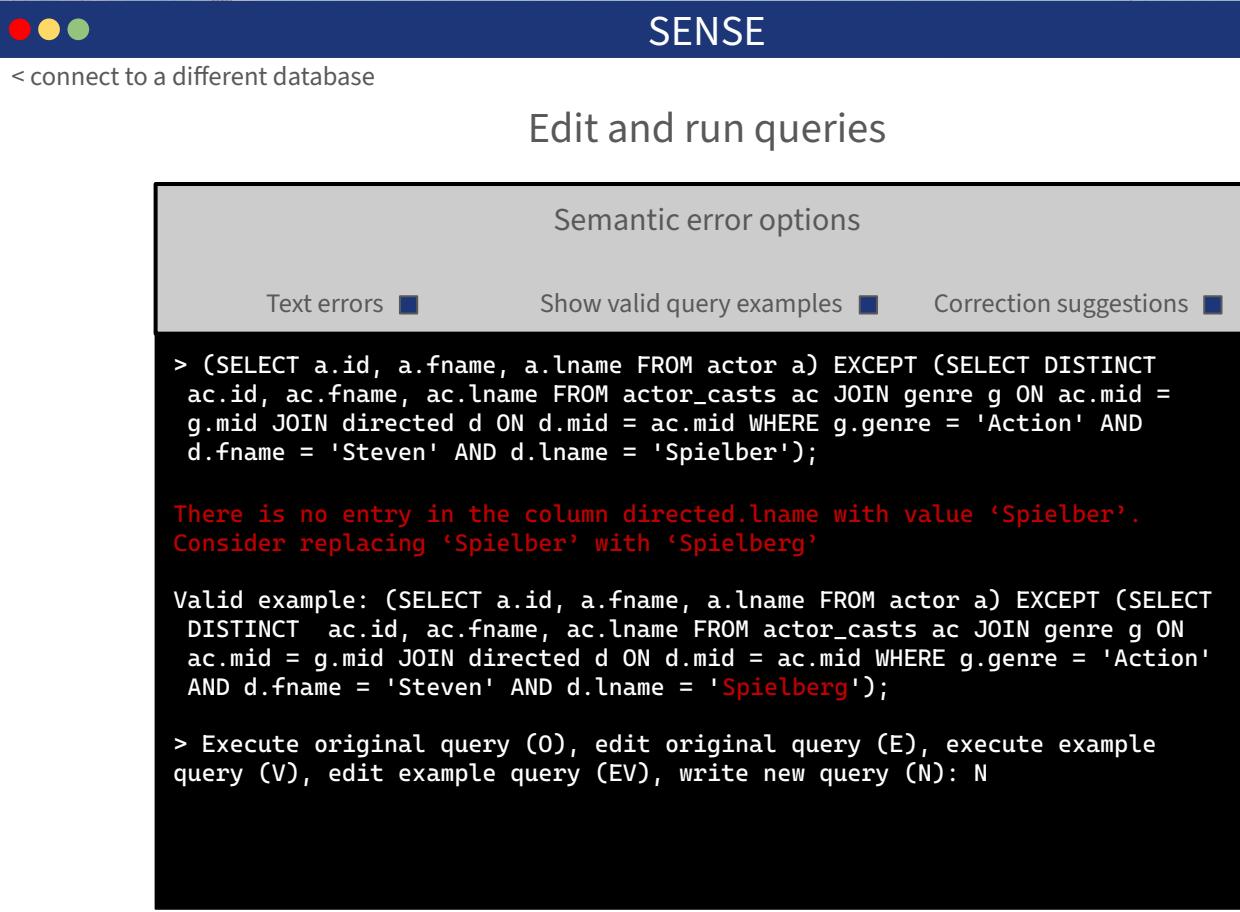
< connect to a different database

Edit and run queries

Semantic error options

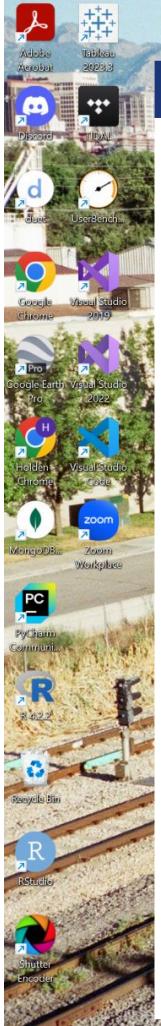| Text errors ■ | Show valid query examples ■ | Correction suggestions ■ |

```
> (SELECT a.id, a.fname, a.lname FROM actor a) EXCEPT (SELECT DISTINCT
  ac.id, ac.fname, ac.lname FROM actor_casts ac JOIN genre g ON ac.mid =
  g.mid JOIN directed d ON d.mid = ac.mid WHERE g.genre = 'Action' AND
  d.fname = 'Steven' AND d.lname = 'Spielber');

There is no entry in the column directed.lname with value 'Spielber'.
Consider replacing 'Spielber' with 'Spielberg'

Valid example: (SELECT a.id, a.fname, a.lname FROM actor a) EXCEPT (SELECT
  DISTINCT  ac.id, ac.fname, ac.lname FROM actor_casts ac JOIN genre g ON
  ac.mid = g.mid JOIN directed d ON d.mid = ac.mid WHERE g.genre = 'Action'
  AND d.fname = 'Steven' AND d.lname = 'Spielberg');

> Execute original query (O), edit original query (E), execute example
query (V), edit example query (EV), write new query (N): N
```
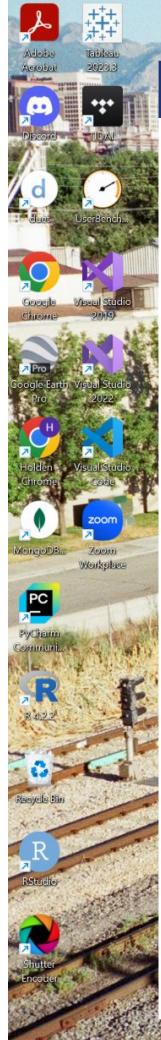
SENSE

Edit and run queries

Semantic error options

Text errors ▪   Show valid query examples ▪   Correction suggestions ▪

> ▮

< connect to a different database

Edit and run queries

Semantic error options

Text errors ■   Show valid query examples ■   Correction suggestions ■

> (SELECT a.id, a.fname, a.lname FROM actor a) EXCEPT
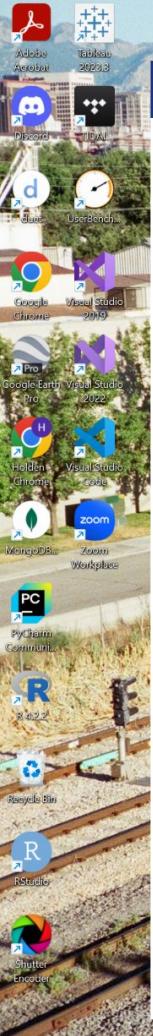
SENSE

< connect to a different database

Edit and run queries

Semantic error options

Text errors ■   Show valid query examples ■   Correction suggestions ■

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> (SELECT a.id, a.fname, a.lname FROM actor a) EXCEPT (SELECT DISTINCT
  ac.id, ac.fname, ac.lname FROM actor_casts ac JOIN genre g ON ac.mid =
  g.mid JOIN
```

SENSE

< connect to a different database

Edit and run queries

Semantic error options

Text errors ■   Show valid query examples ■   Correction suggestions ■

```
> (SELECT a.id, a.fname, a.lname FROM actor a) EXCEPT (SELECT DISTINCT
  ac.id, ac.fname, ac.lname FROM actor_casts ac JOIN genre g ON ac.mid =
  g.mid JOIN directed d ON d.mid = ac.mid WHERE g.genre = 'Action' AND
  d.fname = 'Steven' AND d.lname = 'Spielberg');

This query appears to be semantically correct

> Execute original query (O), edit original query (E), write new query (N) ■
```

Thank you for watching