

TRANSFORMER

INSERT INTO

```
applications(lastname string:23131:text:35chars,
             height_feet int:0-10:dropdown,
             date_of_birth date:03/01/1920-01/30/2016:text:8chars,
             ..... )
VALUES (...);
```

Cost Function

INSERT INTO

```
applications(lastname text:page1:30px,
             height_feet rangeslider:page1:30px,
             date_of_birth text:page2:30px,
             ..... )
VALUES (...);
```

Data Types,
Cardinality, Range

Database

Data Distribution

Original Form

Redesigned Form

Last Name: *

Date Of Birth (MM/DD/YYYY): * ? City Of Birth: * ?

Country Of Birth: * ? State/Territory Of Birth: * ?

Social Security Number: * ?

Sex: *

☐ Male ☐ Female

Height: *

Feet: Inches:

Hair Color: *

Eye Color: *

Binary Field

Distinct Cardinality of 7

Last Name

Male ☒

Feet: 5

Hair Color

Eye Color

Range of
values used to
decide widget
and widget size

Data
distribution
dictates default
value