Classes

Class1

Class1 $\equiv \exists$ likesToWorkWith FemaleColleagues

Class2

Class2 $\equiv \forall$ likesToWorkWith FemaleColleagues

Class3

 $Class3 \equiv \exists \ likesToWorkWith \ \{doris\}$

Class4

Class4 $\equiv \geq 3$ likesToWorkWith Person

Class5

 $Class5 \equiv = likesToWorkWith Person$

Female Colleagues

FemaleColleagues $\equiv \{desiree\} \sqcup \{doris\} \sqcup \{dagmar\}$

Person

Object properties

${\bf likes To Work With}$

```
\existslikesToWorkWith Thing \sqsubseteqPerson \top \sqsubseteq \foralllikesToWorkWith Person
```

Data properties

Individuals

anton

```
anton : Person {anton} \neq {bernd} \neq {charles} \neq {dagmar} \neq {desiree} \neq {doris} \neq {gustav} likesToWorkWith(anton, doris) likesToWorkWith(anton, dagmar)
```

bernd

```
bernd : Person
\{anton\} \not\equiv \{bernd\} \not\equiv \{charles\} \not\equiv \{dagmar\} \not\equiv \{desiree\} \not\equiv \{doris\} \not\equiv \{gustav\}
charles
{\it charles: Person}
\{anton\} \not\equiv \{bernd\} \not\equiv \{charles\} \not\equiv \{dagmar\} \not\equiv \{desiree\} \not\equiv \{doris\} \not\equiv \{gustav\}
dagmar
dagmar : Person
\{anton\} \not\equiv \{bernd\} \not\equiv \{charles\} \not\equiv \{dagmar\} \not\equiv \{desiree\} \not\equiv \{doris\} \not\equiv \{gustav\}
desiree
{\it desiree}: {\it Person}
\{anton\} \not\equiv \{bernd\} \not\equiv \{charles\} \not\equiv \{dagmar\} \not\equiv \{desiree\} \not\equiv \{doris\} \not\equiv \{gustav\}
doris
doris : Person
\{anton\} \not\equiv \{bernd\} \not\equiv \{charles\} \not\equiv \{dagmar\} \not\equiv \{desiree\} \not\equiv \{doris\} \not\equiv \{gustav\}
likesToWorkWith(doris, dagmar)
likesToWorkWith(doris, bernd)
gustav
gustav : Person
\{anton\} \not\equiv \{bernd\} \not\equiv \{charles\} \not\equiv \{dagmar\} \not\equiv \{desiree\} \not\equiv \{doris\} \not\equiv \{gustav\}
likesToWorkWith(gustav, bernd)
likesToWorkWith(gustav, desiree)
```

Datatypes

likesToWorkWith(gustav, doris)