1.Alice is a friend of Bob.

Friend(alice,bob)

2.Bob has a girlfriend.

∃x Friend(bob, x) ∧Female(x)

3.All friends of Bob are also friends of Alice.

∀xFriend(x,bob) →Friend(x,alice)

4.Alice has at least two friends.

∃x∃y Friend(alice, x)∧Friend(alice, y)∧¬x =y

5.Everybody has a friend.

∀x∃yFriend(x, y)

6.Nobody is a friend of everybody else.

¬∃x∀y¬x= y→Friend(x, y)