The reason why p1.equals(p2) returns false because:

* The p1 dynamically calls the overriding equals() from the subclass
* P2(Person) is the superclass and it is not an instance PersonWithJob(child class)

so, it returns false.

The reason why p2.equals(p1) returns true because:

* The p2 calls the original equals() from the superclass
* P1(PersonWithJob) is an object of the subclass and has an IS-A relationship with the superclass(Person)
* it only checks the equality of names.

So, it returns true.