1. The information gain for age is 0.552689 and the information gain for salary is 0.257679. If I were to split the data set into smaller portions, I would choose the age attribute. The information gain is greater for age than it is for salary
2. placeholder
3. placeholder
4. The rules are not mutually exclusive. There is a range (41 - 50) in age that is satisfied by both rules and causes an overlap for tuples that have age in that range. For them to be mutually exclusive, the rules should not have any overlap.  
   These rules are, however, exhaustive as they cover every possible age; every record would be covered by at least one of the rules. This stands assuming every tuple has the age attribute non-empty, otherwise the rules would not be exhaustive.