

GROUP EXERCISE
Chapter 3
The Relational Model and Normalization
Exercise 3

WORKER

Worker-ID	Skill-Type	Bonus-Rate
1235	Electric	3.50
1412	Plumbing	3.00
1311	Electric	3.50

1. What are the functional dependencies in this relation?
2. What are the candidate keys in this relation (unique determinants of all of the other columns)? Primary Key?
3. What are the problems created if a worker with Worker-ID 1245 with an electric skill-type is added to the relation?
4. What are the problems created if the electric Bonus-Rate is changed to 4.00?
5. What are the problems created if the worker with Worker-ID 1412 quits?
6. What is the problem if the organization wants to enter a new Skill-Type for painter with a Bonus-Rate of 2.50?
7. If applicable, apply Kroenke's Rule to solve the modification anomaly problems you have discovered? Remember to include the data.