Hyung Yul Choi  
CSC 340

Relevant Functional Dependencies

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| Functional Dependency | Justification |
| siteID# → address, region\_name, office\_department | “Each company site can be identified by its unique site number” |
| dumpsite# → region\_name | “Each of our working regions will have at least one dumpsite, and each dumpsite has its own unique identification number.” |
| vehicle# → vehicleType, siteID#, supplier\_name | “We would like to be able to identify each garbage truck by its unique number.”  “We would also like to know at which company site the truck is stationed in because it can only be stationed in one collection site.” |
| order# → start\_date, garbage\_type, recurring, customerID | “To make a collection, our customers have to make order forms with unique form id# to identify how often they want their waste picked up, generally what kind of waste they have, and when they want the pickup made.” |
| customerID → cust\_firstname, cust\_lastname, cust\_address, cust\_tel\_no, cust\_email, cust\_region\_name | “Also, we must be able to uniquely identify each customer.” |
| supplier\_name → supplier\_telNo, type\_offered, vehicle\_price | “We keep in contact with a multiple of these suppliers, and they all have different company names.” |
| emp# → firstname, lastname, emp\_email, emp\_address, emp\_tel\_no, license#, department, SS#, siteID# | “We give each of our employees their own unique identification number when they begin working for us.” |
| SS# → firstname, lastname, emp\_email, emp\_address, emp\_tel\_no, license#, department, emp# | “We would want to keep track of all our staff’s name, ssn, sex, and the department they work at.” |
| vehicle# → region\_name | “We would also like to know at which company site the truck is stationed in because it can only be stationed in one collection site.” |
| order# → region\_name | “To make a collection, our customers have to make order forms with unique form id# to identify how often they want their waste picked up, generally what kind of waste they have, and when they want the pickup made.”  order# → customerID |
| order#, completed\_date → vehicle#, emp#, site#, dumpsite# | “Finally, after each pickup is completed, we would like to keep track of all of the pickups that we have completed, including our staff who completed the pickup and which garbage truck was used. “ |
| address → region\_name | “Since the address will be detailed enough, with it, we could also find its region.” |