

Business Rules for Garden Services

Given Business rules:

1. You offer major services such as irrigation, landscaping, tree service, roof cleaning, yard waste removal, fall cleaning, fertilizing, pest control, holiday decoration etc.
2. You provide different policies for commercial and residential services, such as, commercial service requires general liability insurance and workers comp.
3. You have many ground workers; they all work at least one job per day.
4. Ground workers may perform tasks at commercial or residential services
5. Each customer can have multiple service packages such as landscaping, fertilization, pest control etc.
6. All payment must be complete upfront.
7. All customers must have valid address and phone number
8. Your database is providing source of all plant types that customer has for their garden
9. You are working with several local and a few international vendors for plants/seeds, garden tools and decoration.
10. All vendors must have valid tax information/address and phone number

Added Business rules:

11. Every vendor must have a unique vendor ID (PK), vendor name, vendor address, and vendor phone number.
12. A vendor can provide any number of tools.
13. A tool is provided by only one vendor.
14. A vendor can provide any number of plants.
15. A plant is provided by only one vendor.
16. A vendor can provide any number of decorations.
17. A decoration is provided by only one vendor.
18. Every tool must have a unique tool ID (PK), tool name, and vendorID (FK).
19. A tool is Can be tracked by many toolLogs
20. A toolLog tracks only one tool
21. Every decoration must have a unique decoration ID (PK), decoration name, and vendorID (FK).
22. A decoration can be requested by many orders.
23. An order can request only one decoration.
24. Every plant must have a unique plant ID (PK), plant name, plant class, and vendorID (FK).

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25. A plant can be requested by multiple orders.
26. An order can request only one plant.
27. Every order must have an order ID (PK), order date, plantID (FK), and decorationID (FK).
28. An order is placed by one customer.
29. A customer can place multiple orders.
30. Every ground worker must have employee ID (PK), DOB, social security number, employee first name, employee last name, toolID (FK), and servicesOffered (FK).
31. A ground worker must have at least one certification.
32. A certification can only be held by one ground workers.
33. A ground worker is recorded into at least one serviceRecord.
34. A serviceRecord tracks only one ground worker.
35. Every certification must have certification ID (PK), employee ID (FK), certification name, issued date, and expiration date.
36. Every serviceOffered must have a service ID (PK), service name, service description, and insurance type.
37. A serviceOffered can create many serviceRecords.
38. A serviceRecord is created by only one serviceOffered.
39. A serviceRecord is tracked for only one customer.
40. A customer can have many service records.
41. Every serviceRecord must have record ID (PK), service ID (FK), and service date.
42. Every customer must have a customerID (PK), customer first name, customer last name, address, phone number, orderID (FK), and recordID (FK).
43. A tool log must record logID (PK), toolID (FK), employeeID (FK), and date.
44. A ground worker can have many tool logs
45. A tool log is recorded for only one ground worker.