**Database Table Information**

**Assumptions**

1. Customers can use their company address – programmed in the code by using the same company address
2. Customers and companies can have more than 1 address
3. In CarsAvailable base price will be reduced by multiplying or dividing this value in the code for company prices. Give companies cheaper rate.
4. Companies must book an employee through customers (must select person to book to). This is to stop unauthorized employees using cars.
5. Check no orders for same CarAvailable in same location at the same time
6. Holiday opening times overrides opening times

Tables:

1. CompanyAddresses
2. Companies
3. CustomerAddresses
4. Customers (or employees)
5. Locations
6. OpeningTimes
7. HolidayOpeningTimes
8. Cars
9. Orders
10. CarsAvailable

NN = not null

Table attributes:

1. CompanyAddresses
2. CompanyAddressID – BIGINT PK
3. CompanyID – BIGINT FK, NN
4. Line1 – VARCHAR(50)
5. Line2 – VARCHAR(50)
6. Line3 – VARCHAR(50)
7. Line4 – VARCHAR(50)
8. City – VARCHAR(50) NN
9. ZipOrPostcode – VARCHAR(50) NN
10. CountyStateProvince – VARCHAR(50)
11. Country – VARCHAR(50) NN
12. OtherDetails – VARCHAR(200)
13. Companies
14. CompanyID – BIGINT PK
15. UserName – VARCHAR(50), NN
16. CompanyName – VARCHAR(50) NN
17. CompanyDescription – VARCHAR(300)
18. PhoneNo – VARCHAR(11) with Regex, NN
19. EmailAddress – VARCHAR(150) Regex for @, NN
20. CustomerAddresses
21. CustomerAddressID – BIGINT PK
22. CustomerID – BIGINT FK
23. Line1 – VARCHAR(50)
24. Line2 – VARCHAR(50)
25. Line3 – VARCHAR(50)
26. Line4 – VARCHAR(50)
27. City – VARCHAR(50) NN
28. ZipOrPostcode – VARCHAR(50) NN
29. CountyStateProvince – VARCHAR(50)
30. Country – VARCHAR(50) NN
31. OtherDetails – VARCHAR(200)
32. Customers
33. CustomerID – BIGINT PK
34. CompanyID – BIGINT FK
35. UserName – VARCHAR(50) NN
36. Surname – VARCHAR(50) NN
37. Forename – VARCHAR(50) NN
38. Gender – CHAR(1)
39. PhoneNo – VARCHAR(11) with Regex, NN
40. MobileNo – VARCHAR(11) with Regex
41. EmailAddress – VARCHAR(150) Regex for @, NN
42. Locations
43. LocationID – BIGINT PK
44. LocationName VARCHAR(100) NN
45. OwnerName VARCHAR(50) NN
46. Capacity – INT (numbers of cars that can be on site)
47. AddressLine1 – VARCHAR(50)
48. AddressLine2 – VARCHAR(50)
49. AddressLine3 – VARCHAR(50)
50. AddressLine4 – VARCHAR(50)
51. City – VARCHAR(50) NN
52. ZipOrPostcode – VARCHAR(50) NN
53. CountyStateProvince – VARCHAR(50) NN
54. Country – VARCHAR(50)
55. OtherAddressDetails – VARCHAR(200)
56. PhoneNo – VARCHAR(11) with Regex NN
57. EmailAddress – VARCHAR(150) Regex for @ NN
58. Longitude – FLOAT NN
59. Latitude – FLOAT NN
60. OpeningTimes
61. LocationID – BIGINT PK, FK
62. DayOfTheWeek – INT PK
63. OpenTime –DATETIME
64. CloseTime – DATETIME
65. Closed BIT NN
66. HolidayOpeningTimes
67. LocationID – BIGINT PK, FK
68. HolidayStartDate – DATE PK
69. AltOpenTime – DATETIME
70. AltCloseTime – DATETIME
71. Closed – BIT NN
72. Cars
73. CarID – BIGINT PK
74. Manufacturer – VARCHAR(30) NN
75. Model – VARCHAR(30) NN
76. SIPPCode – CHAR(4) NN
77. MPG – FLOAT NN
78. ImageURL – VARCHAR(100)
79. Orders
80. OrderID – BIGINT PK
81. CustomerID – BIGINT FK
82. PaymentMethod – VARCHAR(30) NN
83. Date – DATETIME NN
84. Time – DATETIME NN
85. Duration – INT NN
86. CarsAvailable
87. CarsAvailableID – BIGINT PK
88. CarID – BIGINT FK
89. LocationID – BIGINT FK
90. OrderID – BIGINT FK
91. BasePrice – FLOAT NN
92. UNIQUE (CarID, LocationID, OrderID)

**ERD**

Cars Available

Opening Times

Holiday Opening Times

Locations

Cars

Orders

Customers

Companies

Company Addresses

Customer Addresses