Attributes Data Dictionary

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Entity or Relationship Name	Attributes	Description	Data Type and Length	Nulls	Multi-valued
Vehicle	fleetMembershipNumber {PK}	This a unique number that identifies every vehicle in the company fleet. It is the primary key for this table.	Integer, 3	No	No
	registrationNumber	Vehicle registration plate number.	String, 7	No	No
	colour	Vehicle paint colour.	String, 20	No	No
	doors	Number of doors.	Integer, 1	No	No
	bodyStyle	Vehicle body style.	String, 5 Domain: [hatch, sedan, SUV, coupe]	No	No
	trim	Level of Vehicle trim.	String, 8 Domain: [standard, sport, luxury]	No	No
VehicleType	make {PK}	Make of the vehicle. Forms a composite primary key for this table with model.	String, 8	No	No
	model {PK}	Model of the vehicle. Forms a composite primary key for this table with make.	String, 8	No	No
Depot	identificationCode {PK}	A unique identification code for each Depot. It is the primary key for this table.	Integer, 2	No	No
	address	This is the header of a composite attribute for the Depot address. It holds no values itself.	-	-	-
	street	Depot street number, street name and suburb.	String, 45	No	No
	postcode	Postcode of the Depot.	String, 4	No	No
	phoneNumber	Phone numbers of the Depot.	String, 14	At least 1 required	Yes, [1..4]
	faxNumber	Fax number of the Depot.	String, 14	Yes	No
Client	clientIdentifier {PK}	A unique identification code for each Client. It is the primary key for this table.	Integer, 8	No	No
	name	This is the header of a composite attribute for the Client name. It holds no values itself.	-	-	-
	family	Family name of the Client.	String, 20	No	No

	personal	Personal name of the Client.	String, 20	No	No
	title	Title of the Client.	String, 4	No	No
	address	This is the header of a composite attribute for the Client address. It holds no values itself.	-	-	-
	street	Client street number, street name and suburb.	String, 45	No	No
	postcode	Client post code.	String, 4	No	No
	phoneNumber	Client phone numbers.	String, 14	At least 1 required	Yes, [1..2]
	driversLicenseNumber	The driver's license number of the Client.	String, 12	No[1]	No
Driver	-	Driver has no separate attributes from Client in the conceptual model, however maybe a Yes/nothing field would be an appropriate implementation?	String, 3	Yes	No
Company	companyName	The company name of the client (if required).	String, 30	Yes	No
DailyHireTariff	identificationCode {PK}	A unique identification code for each set of tariff conditions for each VehicleType. It is the primary key for this table.	String, 3[2]	No	No
	description	This describes the set of conditions under which this tariff applies.	String, 50	No	No
	tariff	This is the daily hire tariff that applies for each set of conditions for each VehicleType.	Currency, 3	No	No
Hires	ccType	The credit card type of the hiring Client.	String, 2	No	No
	ccNumber	The credit card number of the hiring Client.	String, 20	No	No
	kilometreage	The current total distance travelled of the hired Vehicle.	Integer, 5	No	No
Booking	preferredColour	A Client's optional preferred colour of a Vehicle booked for future use.	String, 12	Yes	No
GenericBooking	bookingID {PK}	A unique identification code for each Hire or Booking. It is the primary key for this table and its superclasses.	Integer, 10	No	No
	dateTime	The starting time and date of a Hire or Booking.	String, 14[3]	No	No
	numberDays	The number of days of a Hire or Booking.	Integer, 2	No	No
InsurancePolicy	policyNumber {PK}	A unique identification code for each InsurancePolicy. It is the primary key for this table.	Integer, 5	No	No

	policyType	The type of insurance policy.	String, 16 Domain: [excess reduction, excess removal, full cover]	No	No
	cost	The cost of this insurance policy.	Currency, 3	No	No
Invoice	invoiceID {PK}	A unique identification code for each Invoice. It is the primary key for this table.	Integer, 10	No	No
	qualityCheck	Indicates whether a returned Vehicle has passed a quality check.	String, 3 Domain: [yes, no]	No	No
	/finalCost	Final cost is a *derived attribute* calculated as (daily tariff x days hired) + insurance cost.	Currency, 5	No	No
	datePaid	The date an Invoice was paid, or if not recorded, indicates the Invoice is unpaid.	String, 8[3]	Yes	No
Service	date {PK}	The date and time of a previous service or upcoming service. This forms a composite primary key with Vehicle's fleetMembershipNumber, which will be a foreign key in this table.	String, 14[3]	No	No
PastService	description	Describes a PastService, including whether it was a scheduled or repair service.	String, 50	No	No
	cost	The cost of the PastService.	Currency, 4	No	No
ScheduledService	kilometreage	The total kilometres a Vehicle has travelled, representing when it next needs to have a ScheduledService.	Integer, 5	No	No

[1] See comment 2 in Assumptions on why NULL is not allowed.

[2] See comment 5 in Assumptions on this change from String, 2 to String, 3.

[3] I chose String, 14 for date/time fields to represent "YYYYMMDD HH:MM" and String, 8 for just date fields.