

Relational Database Design

A Solution for the Cambridge Fire Department

Cambridge Fire Department Database

Here is one design for the Cambridge Fire Department Database.

	FIREHOUSE table					COMPANY table			
+++>	FIREHOUSE_ID	Number	5	Primary Key	<---+	COMPANY_ID	Number	5	Primary Key <---+
	FIREHOUSE	String	30			COMPANY	String	30	
	YEAR_BUILT	Number	4		+++--	FIREHOUSE_ID	Number	5	Foreign Key
	STREET_ADDRESS	String	30						
	ZIP_CODE	String	5			EQUIPMENT table			
	CITY	String	30			EQUIPMENT_ID	Number	5	Primary Key
						MANUFACTURER	String	20	
	FIREHOUSE NEIGHBORHOOD table					MODEL	String	20	
+++--	FIREHOUSE_ID	Number	5	Primary & Foreign Key		MODEL_YEAR	Number	4	
	NEIGHBORHOOD_ID	Number	5	Primary & Foreign Key	<---+	LADDER_LENGTH	Number	5	
						H2O_CAPACITY	Number	5	
	NEIGHBORHOOD table					PUMP_RATE	Number	5	
	NEIGHBORHOOD_ID	Number	5	Primary Key	<---+	COMPANY_ID	Number	5	Foreign Key <---+
	NEIGHBORHOOD	String	30						