

## Relational Database Design: A Solution for the Cambridge Fire Department

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### Cambridge Fire Department Database

Here is one design for the Cambridge Fire Department Database.

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