

## **METRO MASS TRANSPORT SYSTEM**

Metro Mass is responsible for running a fleet of buses throughout Kumasi. The buses are housed in one of three depots; Asokwa, Abuakwa and Bantama. Each Depot is identified by a depot number; in addition the depot name and addresses are recorded.

Each bus is identified by its registration number. Details of buses' models are held eg Route master and spirit of Kumasi. The buses run on various routes which are describe by starting and finishing points eg.Stadium/Fumesua. Each route is identified by a route number. Only buses from a particular depot will travel on particular routes. Buses are classified by various types such as double-decker and bendy-bus. There are restrictions on some of bus types for some of the routes, for example, those with low bridges may exclude double-decker buses and bendy-buses may be unable to operate around some corners. For this reason buses are designated to particular routes.

The bus company employs bus drivers to operate the buses and cleaners help maintain them. Both the bus drivers and cleaners work at one particular depot. Drivers and cleaner have an employee number, name and salary. In addition the company holds information on the date that driver passed his/her PCV (Passenger Carrying Vehicle) driving test.

For cleaning purposes, the depots are organized with being responsible for a number of buses; each bus has one cleaner who is particularly responsible for that bus. In the case of bus drivers, they can only drive buses where they have completed training for the type of bus and the date when training completed is recorded. Bus drivers can only drive buses where they have had practice on particular routes.

Study the above case and represent it with an entity relationship diagram. Indicate the relations and keys (primary, foreign keys).