**CSE3055 – DATABASE SYSTEM**

**Project 1**

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**CEMETARY SALES COMPANY**

Subject of the Project:

\*In this project we are designing a cemetary sales company in Istanbul. People can buy graves before or after death. And they can buy personal or family graves. There are certain number of graves in a cemetary. A family grave is up to 4 person. If a family is less than 4 person and wants to buy a family grave, they stil have to buy a 4 person family grave. Graves have different prices for their category.

\*The company provides also funeral transport services for the dead customer.

\*With additional cost, company also offers grave care service (cleaning, watering and flower planting at desired periods).

Scope of the Project:

\* Our company provides grave selling service to our customers in Istanbul and takes the funeral from its place to the grave with special transportation vehicles. Also gives grave care service at desired peroids with additional cost.

\* The database contains information about graveyards, graves (family or singular), person [employee (office worker, driver or cleaner), customer (dead or alive)], grave care service, material (cleaning or planting), supplier and cars (staff car or hearse).

Entitites:

1) Our graveyards have unique id, name, address (town, district, street, number) and capacity (family grave, singular grave).

2) Our graves have unique id and price.

3)Every person have unique id, name and phone number. They can have more than one phone number.

4) An office worker has monthly salary.

5) A driver has earning for every funeral.

6) A cleaner has earnings per every grave care service.

7) Every customer has a birth date and dead customers have death date.

8) Every grave care service has unique service id, period and price.

9) Every material has unique material id, name and price.

10) Every supplier has unique id and name

11) Every car has unique licence plate.

12) Every hearse has unique number.

13) Every staff car has car model.

Relationships:

1) Every graveyard has at least one grave and every grave is belong to exactly one graveyard.

2) A grave is either family grave or singular grave and a family grave has 4 people capacity.

3) A grave may have more than one customer (family grave) but a customer has only one grave.

4) Every person is either employee or customer and can be both.

5) An employee is either office worker, driver or cleaner but can not be two or three of them at the same time.

6) A customer is either dead or alive.

7) A car is either staff car or hearse but can not be both.

8) A grave care service may served to one or more grave. And a grave has at most one grave care service.

9 ) A material is either cleaning material or planting material but can not be both at the same time.

10) A supplier may supply one or more material and a material must be supplied from one or more supplier.

12) An office worker may have at most one car and a car belongs to exactly one office worker.