Assignment 6

Due July 23 11:59pm

A small company in Ontario has two plants in Guelph and Waterloo. The company produces parts for cars and motorcycles. In order to keep information about the production activities the owner of the company keeps information in the Excel Spreadsheet, part of which is provided below:

Part #	Customer	Part Type	Employee	Plant	Time (min)
MOTO001	Suzuki	crankshaft	Joe	Guelph	45
MOTO001	Suzuki	crankshaft	Frank	Waterloo	40
MOTO002	Suzuki	piston	Joe	Guelph	20
CAR001	Suzuki	piston	Mary	Waterloo	15
CAR001	BMW	piston	Mary	Waterloo	20
MOTO002	BMW	piston	Mary	Waterloo	10
MOTO001	BMW	crankshaft	Gary	Guelph	65
CAR002	BMW	exhaust	Gary	Guelph	110
MOTO003	Suzuki	exhaust	John	Waterloo	45
CAR003	Suzuki	crankshaft	John	Waterloo	25
CAR003	BMW	crankshaft	Frank	Waterloo	45

The owner of the company realized that the spreadsheet became long and not understandable. He hires you to design a database, which would replace this spreadsheet and allow keep information about the production in the proper order.

The following marks are assigned for the database design:

1. Creation of proper tables   10

2. Allocation of columns to proper tables   10

3. Creation of proper primary key constraints   10

4. Creation of proper foreign key constraints allowing   cascade operations   20

5. Distribution of available data by tables   10

6. Creation of queries:

   - demonstrating all job for Suzuki with times required   5

   - demonstrating all parts made in Waterloo by   various employees   5

                                    Total   **70pts**

Notes: The name of the part contains the type of vehicle (car/motorcycle)

        Employees have last names, addresses and telephones, which must be included in database

        All IDs are numeric and are generated automatically on insert

       Employees work for one plant only (no travel)

        Time required for manufacturing a part is dependent on part, employee and plant