Exercise 6: Consulting firm

A consulting firm carries out projects for its clients. A project must always be associated with a client. During a project, the firm incurs a number of expenses. The firm's employees can work on one or more projects at the same time, and a project usually has more than one employee working on it. The following table is used to calculate the firms expenses and hours rates so it can charge its clients.

Employee Category	Hourly Rate (\$)
Associate	500
Director	200
Senior Analyst	100
Programming Analyst	80

Expense Nb	Expense Description
010	Equipment info.
020	Restaurant
030	Car
040	Secretary
etc.	

The consulting firm wants you to design a entity-relationship model (in the third normal form) that will produce the report below.

Project Nb: AB2403 Date : 99/07/07

Name: Customer order management

Client Nb: CL116 Start Date: 99/01/01
Name: Pharmaplus End Date: 99/03/38

5301, Maisonneuve

Montréal (Québec) H71 2E3

(514) 288-6898

Consultants

Mireille Gadbois Senior Analyst 190 hrs @ 100 \$/h 19 000 \$

Julie Mongrain Programming Analyst 280 hrs @ 80 \$/h 22 000 \$

Sup-Total consultants: 41 400 \$

Expenses

010 Equipment info. 250 \$ 040 Secretary 3 500 \$

 Sup-Total expenses:
 3 750 \$

 Sup-Total project:
 45 150 \$

 TPS:
 3 161 \$

 TVQ:
 3 623 \$

 Grand total:
 51 934 \$