

A software company manages several development projects. The company charges its clients based on the hours spent on each project. The hourly billing rate is dependent on the employee's job position. The illustration below reflects the company's needs. Note the following *business rules*:

- each project can have many employees assigned
- each project has one manager, as designated by the * to the right of their name
- all employees in the same job class have the same hourly charge

PROJECTNUM	PROJNAME	EMPNUM	NAME	HIREDATE	JOBCLASS	CHRGHOUR	HOURS
15	Evergreen	103	June Arbough	4/4/1999	Elect. Engineer	\$84.50	23.8
		101	John News	7/14/2000	Database Designer	105.00	19.4
		105	Alice Johnson*	5/19/2000	Database Designer	105.00	35.7
		106	William Smithfield	3/1/2000	Programmer	35.75	12.6
		102	David Senior	12/4/1987	Systems Analyst	96.75	23.8
18	Amber Wave	114	Annelise Jones	8/16/1972	Application Designer	48.10	24.6
		118	James Frommer	4/4/1988	General Support	18.36	45.3
		104	Anne Ramoras*	7/4/2001	Systems Analyst	96.75	32.4
		112	Darlene Smithson	7/1/2001	DSS Analyst	45.95	44.0
22	Rolling Tide	105	Alice Johnson	5/19/2000	Database Designer	105.00	64.7
		104	Anne Ramoras	8/5/1989	Systems Analyst	96.75	48.4
		113	Delbert Joenbrood*	6/30/1993	Application Designer	48.10	23.6
		111	Geoff Wabash	10/17/1998	Clerical Support	26.87	22.0
		106	William Smithfield	3/1/2000	Programmer	35.75	12.8
25	Starflight	107	Maria Alonzo	5/5/1999	Programmer	35.75	24.6
		115	Travis Bawangi	4/17/2001	Systems Analyst	96.75	45.8
		101	John News*	7/14/2000	Database Designer	105.00	56.3
		114	Annelise Jones	8/16/1972	Application Designer	48.10	33.1
		108	Ralph Washington	3/3/1999	Systems Analyst	96.75	23.6
		118	James Frommer	4/4/1988	General Support	18.36	30.5

Develop an appropriate set of 3NF tables. Document your design with an *ER diagram*.