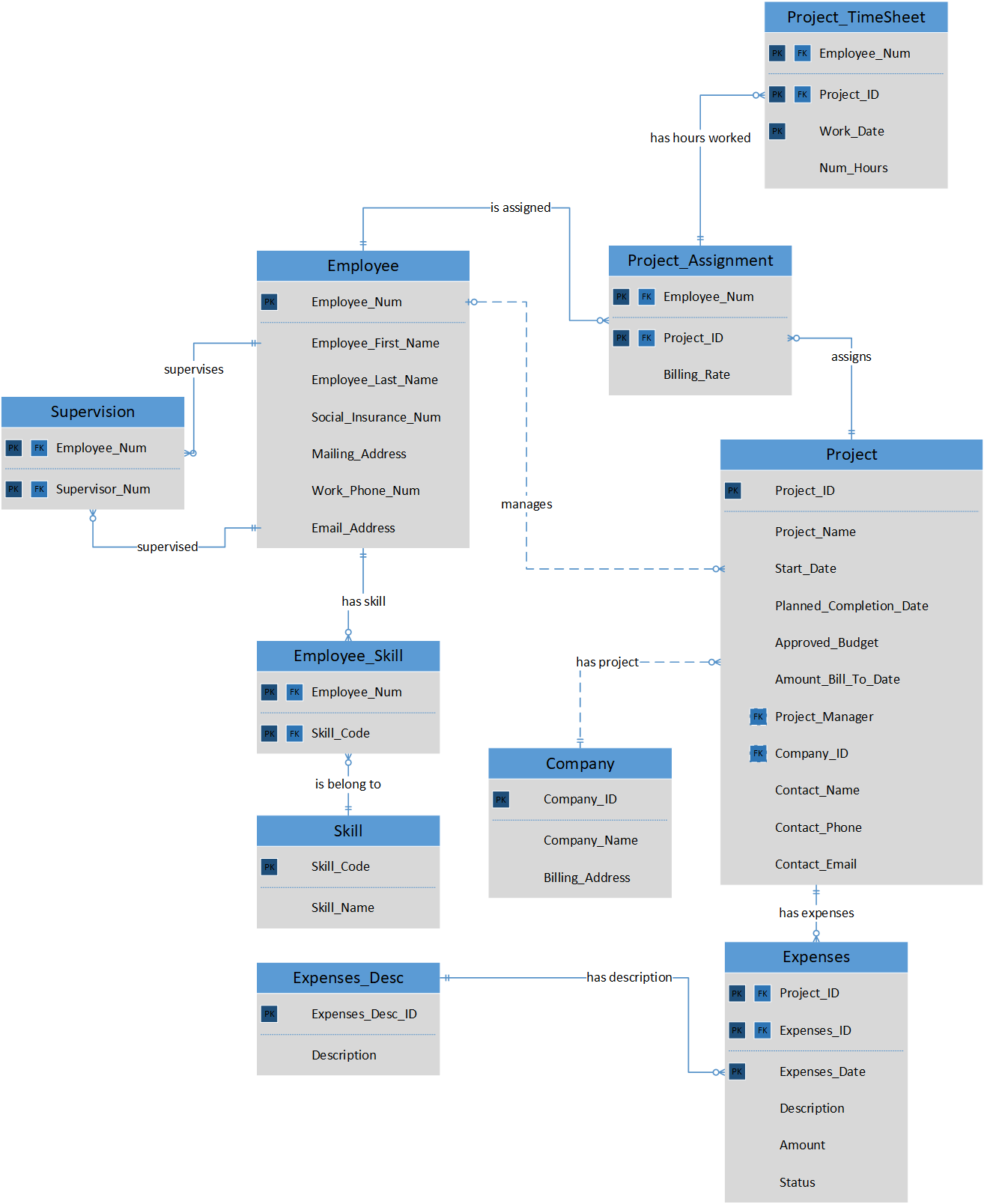
ERD



Assumptions

* Project\_Manager attribute of Project entity references to the Employee\_Num of Employee entity.
* Each project has unique ID
* Each Client Company has unique ID
* The employee that is assigned as project manager must has “Project Management” skill. That means the Project\_Manager attribute of the Project entity must be the Employee\_Num that occurs in Employee\_Skill entity with Skill\_Code of “Project Management” record. For example: Employee Number 1001 is project manager of Project ID 2002. The Skill code of “Project Management” is 3003. The record (Employee number =1001, Skill code = 3003) must be in Employee\_Skill
* The employee that works for the specific project can enter the number of hours worked for the specific date once only. So, (Employee\_Num, Project\_ID, Work\_Date) is composite primary key of Project\_TimeSheet. Project\_TimeSheet is weak entity.
* The number of hours worked for the project or employee can retrieved from querying the Project\_TimeSheet entity.
* The total cost of the budget can be retrieved from number of hours worked, billing\_rate and from the expenses entity. So, the Amount\_Bill\_To\_Date is derived attribute.
* The status of Expenses is ‘S’ for submitted, ‘A’ for approved, ‘B’ for billed.
* Expenses\_Desc stores the standard expense descriptions. Expenses\_Desc has the “Other” record. If that record is in Expenses\_ID of Expenses entity, the Description attribute is entered manually to describe the specific expenses.