



Principles of Database Systems

Practice: ERD Diagram (Logical and Relational Model)

Consider a consulting firm, Worth Work Inc.(WWI) with following entities and attributes.

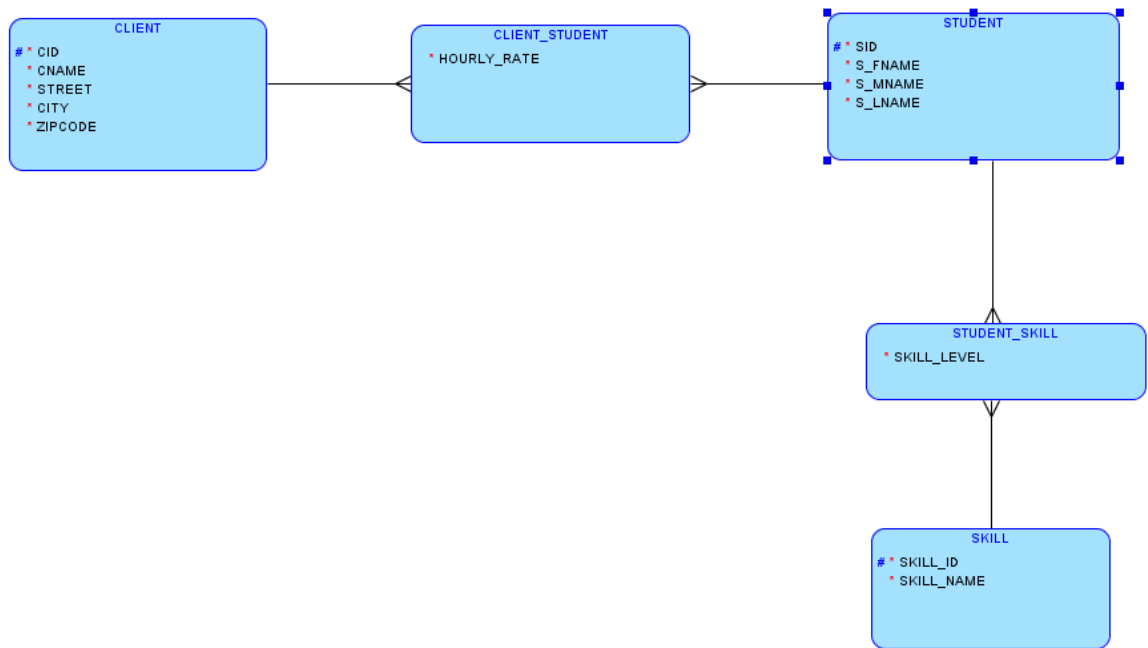
CLIENT (cID, cName, cAddress)

STUDENTS (sID, sName, sSkill)

WWI is a consulting company that provides university students opportunity to work for it client companies. WWI keeps record of potential students and their skills. WWI prefers students with multiple skills in order to place them effectively at client projects. Students are being paid on hourly rate and that can vary client to client and student to student. Each student will have at least one work opportunities. Assume that students can have many skills such as Database principles, Database management, Project management, Web enabled databases, Data analytics etc. WWI also intends to record skill level (H for High, M for Medium, and L for Low) for each skill that students have.

Draw ERD (Logical and Relational Model) using Oracle Data Modeler with proper relationships among entities by resolving any composite or multivalued attributes. Within ERD, for each entity list all attributes and their datatypes and size, mandatory/optional, primary key and foreign key wherever applicable. Clearly state assumptions you have made (if any) for the database designs.

LOGICAL MODEL:



RELATIONAL MODEL

