1. Draw entity-relationship diagram

2. Convert to schema (relations with attributes and keys)

3. Write SQL code to defines those tables

4. Write SQL to insert the data into those tables.

1. Evergreen -> Employee 103,101,105,106,102

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Amber Wave -> Employee 114,118,104,112

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Rolling Tide -> Employee 105,104,113,111,106

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Starflight -> Employee 107,115,101,114,108,118,112

118, 112, 114 -> Starflight -> Amber Wave

101 -> Starflight -> Evergreen

105,106 -> Rolling Tide -> Evergreen

Enitities:

Project: (ProjectNumber, Cost, ProjectName)

Employee: (EmployeeNumber, EmployeeName, JobClass)

JobClass: (JobClassID, Name, ChargePerHour)

All connected

2. Project -> assignment -> Employee -> has -> JobClass

(Proj Num., ProjName, EmployeeNum, EmployeeName, JobClass, HoursBilled, Charge)

3. CREATE TABLE Project (

ProjectNumber int NOT NULL PRIMARY KEY,

ProjectName varchar(100)

Cost float,

ProjectLeaderID int,

};

CREATE TABLE Employee (

EmployeeNumber int NOT NULL PRIMARY KEY,

EmployeeName varchar(100)

JobClass,

);

4.

INSERT INTO Project (ProjectNumber, ProjectName, Cost, ProjectLeaderID)

VALUES

(15, “Evergreen”, 10549.7, 103);