

Thanks Corporation Database Project  
CMSI 486 Enterprise Project — Fall 2014

Edward Bramanti

November 5, 2014

# Contents

<b>I</b>	<b>Title Page</b>	<b>1</b>
<b>II</b>	<b>Table of Contents</b>	<b>2</b>
<b>III</b>	<b>Description of the Enterprise</b>	<b>3</b>
<b>IV</b>	<b>Definition of Environment</b>	<b>5</b>
IV.1	Input and Report Forms . . . . .	5
IV.2	Assumptions . . . . .	5
IV.3	User-Oriented Data Dictionary . . . . .	5
IV.4	Cross-Reference Table . . . . .	5
<b>V</b>	<b>Enterprise Database Design</b>	<b>6</b>
V.1	Logical Model of the Enterprise . . . . .	6
V.1.1	List of Entities and Attributes . . . . .	6
V.1.2	List of Relationships and Attributes . . . . .	8
V.1.3	Entity-Relationship Diagram of the Enterprise . . . . .	9
V.2	Conceptual model of the enterprise . . . . .	10
V.3	Table dictionary . . . . .	10
V.4	Attribute dictionary . . . . .	10

## Chapter III

# Description of the Enterprise

Thanks is an effective, entirely digital, multi-purpose employee recognition system. The database will consist of many different companies who will pay for a service that makes recognizing employees simple and meaningful. This will allow the Thanks database to be used in a way that is unique to each company using the service.

The enterprise in question will make it much easier for employees to recognize one another across their company. As companies grow, it becomes difficult to maintain an atmosphere of employee worth. This growing size represents a problem as individual employees can feel like their work goes unnoticed in their company. Thanks provides a remedy for that by providing a digital way to send recognition to any employee quickly.

In an organization, there will be one user type with some special attributes. For example, an executive will be a special user type and will be denoted with special attributes. When opening the thanks form, it will be necessary to present a list of all employees in the company. A list of employees would appear with these attributes: name, position and department. This would provide employees with a clear snapshot on everyones role in the company if they saw a fellow employee do something amazing and was not sure what position they occupied in the company. Users will be able to send other users the primary data type known as Thanks. For each thank, we have a user that gives the Thanks and a user that receives the Thanks. This demonstrates the personal aspect of recognition, as an employee recognizes a specific employee directly.

A Thanks also contains an area for an employee to write a message so they can explain what they are thanking the employee for. This allows for personalization of the Thanks so that employees can be detailed on the outstanding work their coworkers are doing. Finally, companies will be able to define a custom attribute for the last part of the Thanks, which will be represented as values the company wants to promote. The advantage of this value is that companies, depending on their mission statements and core beliefs, will be able to tailor this field to encourage specific attributes that represent the company within employees.

Thanks represents a social network within a company than it is a private thanking system. Messages will display on a live feed all of the Thanks being given around the company. Employees will be able to easily see the interaction and encouragement being spread amongst their acquaintances. The potential of Thanks is enormous, which is why a specific structure around a public space of thanks combined with personalized instances and explanations of employee worth are necessary in this database design.

Here are a set of questions employees, department heads or executives may pose when retrieving data:

1. List all employees in the company “I Love Thanks”.
2. Which department has received the most Thanks in the company?
3. Return a list of all employees who have nicknames.
4. List all company values for the “I Love Thanks” company.
5. Which department head has received the most Thanks in the company?
6. Which one of Julia Crow’s Thanks she gave received the most likes?
7. Who has never received a Thanks within a company?
8. Who is the newest employee to have joined the company?
9. How many Thanks were posted in the company on October 20, 2014?
10. List the executives in the company “I Love Thanks”.

## Chapter IV

# Definition of Environment

IV.1 Input and Report Forms

IV.2 Assumptions

IV.3 User-Oriented Data Dictionary

IV.4 Cross-Reference Table

## Chapter V

# Enterprise Database Design

### V.1 Logical Model of the Enterprise

#### V.1.1 List of Entities and Attributes

- Employee
  - eid: Employee ID
  - name: Employee Name
  - job\_title: Employee Job Title
  - photo: Employee Photo
  - nickname: Employee Nickname
  - started: Date the Employee Started
- Department Head - inherits Employee
  - headid: Department Head ID
- Executive - inherits Employee
  - execid: Executive ID
- Department
  - did: Department ID
  - depTitle: Department Title
  - depDescription: Department Description
- Company
  - cid: Company ID
  - cTitle: Company Title
  - founded\_date: Date Company was Founded
- Thanks
  - tid: Thanks ID

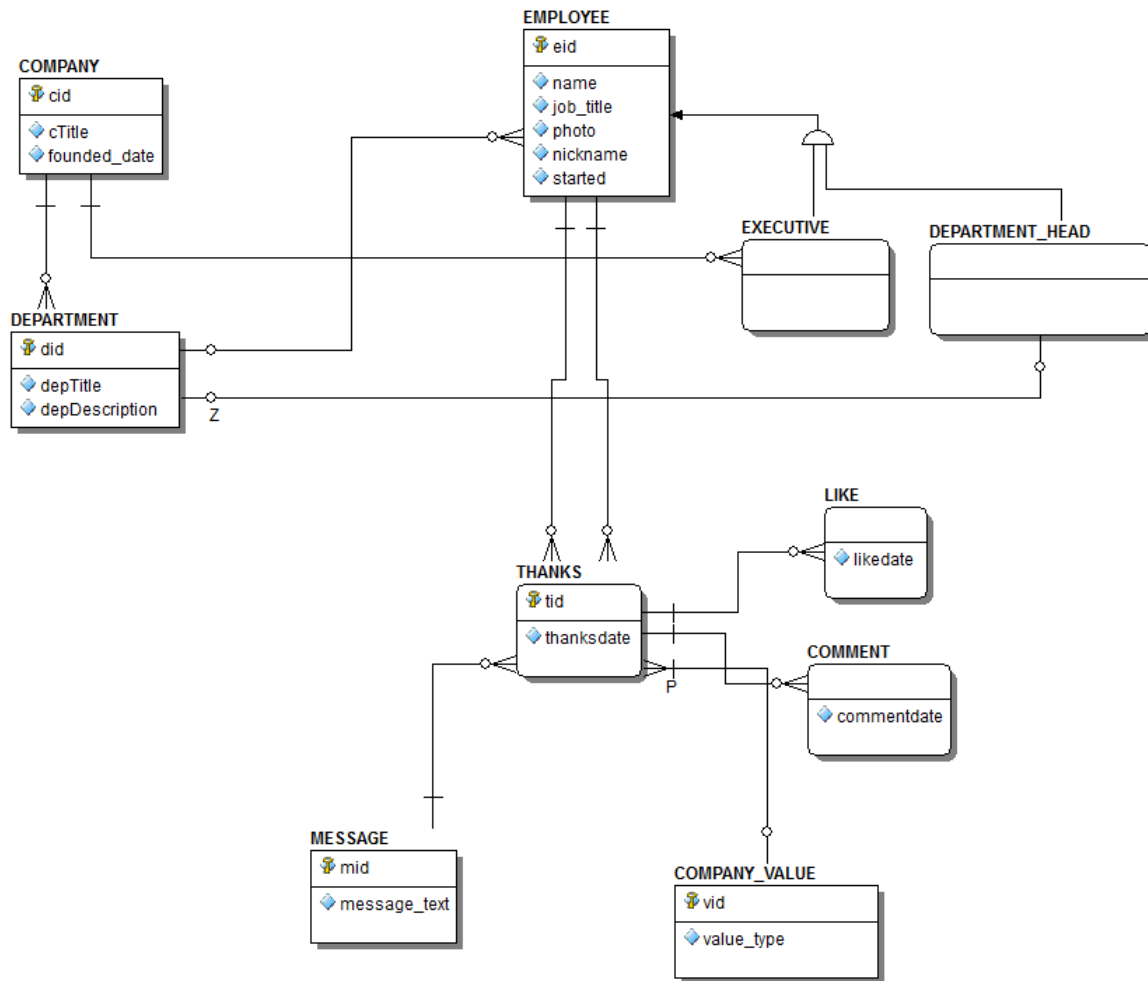
- thanksdate: Date Thanks was Given
- Like
  - likedate: Date Like was Given
- Comment
  - commentdate: Date Comment was Given
- Message
  - mid: Message ID
  - message\_text: Text of Message
- Company Value
  - vid: Company Value ID
  - value\_type: type of company value

### V.1.2 List of Relationships and Attributes

- Relationship



### V.1.3 Entity-Relationship Diagram of the Enterprise



**V.2 Conceptual model of the enterprise**

**V.3 Table dictionary**

**V.4 Attribute dictionary**