INFO90002 Week 2 Lab

Week 2 Lab

Objectives:

- Review a case study and identify entities and attributes
- Identify the relationships between entities
- Identify the cardinality between entities
- Draw a Conceptual model of the case study
- Set up & install your MySQL account on the Engineering IT server

Section 1. Data Modelling

Case Study: The Department Store

This database is the central component of an information system used to manage a department store that specialises in camping and hiking equipment. The store has several departments. For each department we must record its name and unique department id, phone number, and which floor it is on. Each department has several employees working for it. Each department has a manager. A manager can manage one or more departments.

About each employee we record their first name, last name, a unique employee id, their annual salary, which department they work for and which other employee is their boss. The General Manager of the Department Store has no boss.

The items that the store sells each have a name and id, a type, a colour and the retail price. Whenever a department sells items to customers we record which item was sold, how many were sold, which department sold it. Each sale may contain one or more items Each sale is unique to each department within the store.

Items are delivered to the store by suppliers. Each delivery from a supplier contains one or more items delivered to one or more departments within the store and the wholesale price of each item. For each supplier we record a unique supplier id, name and contact phone number.

1.1. Reading the case study, what entities need to be tracked?

1.2. What information will be recorded about each entity?

1.3. What are the relationships between the entities?

1.4. What are the cardinalities of the relationships?

1.5 Draw a conceptual model of the Department Store entities

Hint: The suggested conceptual model solution will be available in next week's lab

Section 2. MySQL Setup

2.1. Login to your lab computer

2.2 Start MySQL Workbench.

*Hint: To assist with the MySQL Workbench set up please use the **MySQL Workbench Guide** in the Labs folder of LMS*

2.3. Click the + Symbol next to the "My SQL Connections"

2.4. Enter a connection name, hostname, username (studentID) and password. Your password will be provided by your tutor.

2.5. In the bottom right of the window select 'Test Connection' if successful click 'OK'

2.6 Change your password

Changing your password

To change your password, after logging in, enter the command:

```
SET PASSWORD = PASSWORD("new-password-here");
```

Now press the leftmost lightning button on the toolbar to run the query. Also remember that your password is case sensitive.

IMPORTANT: Do not forget your password. If you do forget you will have to request a password change from Engineering IT!

HOW TO REQUEST A PASSWORD RESET

If you forget the password to your database hosted on the Engineering server the only people that can reset your password are Engineering IT.

1. Navigate to

http://ithelp.eng.unimelb.edu.au.

2. Provide your student ID, subject code (INFO90002) and request a MySQL password reset.

2.7. Download and run the setup script, as directed by your Tutor.