**CS401 LAB 1 Question 3 Worksheet**

**Problem Description:**

A Project Manager manages multiple projects. A project, before final release, is

required to have a specified feature set. Associated with a project are multiple

releases. A release is a functional piece of the project being developed that

includes a subset of the feature set for the project and which is to be delivered on a

specified date (the feature set and release date are determined by the Project

Manager). When the last release is delivered, the project is considered completed.

Associated with each feature for a project is a developer who is responsible for

developing this feature for inclusion in the project. A developer has an id and

provides, for each feature he is responsible for, the estimated time remaining to

complete work on that feature. The Project Manager assigns features to developers

to work on.

**List of Noun Phrases (Project Management)**

Project Manager, projects, final release, feature set, project, releases, project, subset, feature, project, specified date, feature set, release date, last release, project, feature, project, developer, feature, inclusion, project, developer id, feature, estimated time remaining, Project Manager, features, developers

**Sort and Eliminate Duplicates (Project Management)**

* developer
* developer id
* estimated time remaining
* feature
* feature set
* final release
* project
* Project Manager
* release date
* releases
* specified date
* subset

**Final List of Noun Phrases (Project Management)**

* developer
* developer id
* estimated time remaining
* feature
* feature set
* final release
* project
* Project Manager
* release date
* releases
* specified date

**Group “Synonyms” (Project Management)**

developer

developer id

estimated time remaining

feature

feature set

specified date

final release

release date

release

project

Project Manager

**Choose Class Name (Project Management)**

**Developer**

**Project Manager**

**Feature**

**Release**

**CS401 LAB 1 Question 4 Worksheet**

**Problem Description:**

A **landlord** owns several types of **properties**: **houses**, **condominiums**, and . A **house** has an **address** and a **lot** **size**. **Rent** for a **house** is computed by **rent** = 0.1 \* **lot** **size.** A **condominium** has an **address** and a certain **number** of **floors** ( 1 **floor**, 2 **floors**, or 3 **floors** ). Rent for a **condominium** is computed by **rent** = 400 \* **number** of **floors.** A **trailer** belongs to a particular **trailer** **park** ( specified by the **trailer** **park** **address** ). The **rent** for a **trailer** is always $ 500. The **property** **management** **software** is required to have an **Admin** **module** that supports various functions. One of these **functions** is to compute **total rent** for all the **properties** registered in the **system**. Another function is to list all **properties** in the **system** that are in a specified **city**.

**List of Noun Phrases (Properties Management System)**

landlord, properties, houses, condominiums, house, address, lot size, Rent, house, rent, lot size, condominium, address, number of floors, floor, floors, floors, condominium, rent, number of floors, trailer, trailer park, trailer park address, rent, trailer, property management software, Admin, total rent, properties, system, properties, system, city

**Sort and Eliminate Duplicates and Singular to Plural (Properties Management System)**

landlord, properties, house, address, lot size, rent, lot size, condominium, address, number of floors, floor, trailer, trailer park, trailer park address, property management software, Admin, total rent, system, city

**Streamline the List Further & Final List of Noun Phrases (Properties Management System)**

* Landlord
* Property
* House
* Address
* lot size
* Rent
* Condominium
* number of floors
* Floor
* Trailer
* trailer park
* trailer park address
* Admin
* total rent
* city

**Group “Synonyms” (Properties Management System)**

Landlord

Property

House

Address

lot size

Rent

Condominium

number of floors

Floor

Trailer

trailer park

trailer park address

total rent

City

Admin

**Final List of Classes Derived from Noun Phrases (Properties Management System)**

Landlord

Property

House

Condominium

Trailer

Address

Admin