**Grandfield College Scenario Module 3 Assignment**

1. Make a list of issues with the current system. You will need to refer back to chapters one and two to gather these issues.

Issues within the Grandfield College software management system include:

* inconsistent system access control
* inconsistent database documentation
* user error due to manual data entry

2. Make a list of the database requirements for each stakeholder involved in the database.

For the **faculty and staff**:

* access to requesting support and reporting software issues to IT
* access to license compliance

For the **administration**:

* overview of software inventory and licensing agreements
* records of all software licenses and purchases
* details of software requests, approvals, and statuses
* access to a list of all software purchased by the college

For the **IT department**:

* access to user information in the installation database
* records of software installations on specific machines
* system error logging and troubleshooting

3. Make a list of business rules.

In reviewing the forms and discussing the interview questions from the last chapter, faculty, staff, and the IT department may have identified several additional business rules. The list below contains those that are explicitly listed in the description.

* Software Licensing Compliance
* Software Installation Tracking
* Software Approval Tracking

4. List some major security rules for the database.

* All software installations, uninstalls, and machine retirements must be recorded in a centralized database.
* All software requests must be approved by the software management team before installation.
* All software must be installed and used in accordance with its licensing agreements.

5. Take a look at each of the forms and make a list of all the nouns in them. Do the same for the interview, the questionnaire, and the Job Shadow Report. Then set up some preliminary entities and attributes.

**Nouns**: Faculty, Staff, Department, Administrator, IT, Support, Computers, Machines, Software, Version, License, Licensing Agreements, Database, Installations, Requests, Permission, Installing, Uninstalling.

**Preliminary Entities and Attributes**:

* Software (Version Number and Version Type)
* Installations (# of software installations)
* Computers (# of users)
* Department (Restriction/Allowance of User Access)

6. Identify some candidate keys needs.

* Software for computer programs
* Database for software tracking
* License compliance management
* Record keeping for installing/uninstalling
* For Maintenance, “Date” could be offered but there is no obvious candidate for a key.