**Systems Analysis: Entity Relationship Diagrams**

After completing this activity you will be able to:

* Interpret an entity relationship diagram
* Construct a simple entity relationship diagram

**Step 1: Individually**

Reference the entity relationship diagram shown on screen & attached with this activity (Entity Relationships Diagram – Display for Class). Prepare 3 questions that can be answered with the diagram:

1.

2.

3.

**Step 2: As a class**

Ask other group members your questions. Reach a consensus on the correct answers.

**Step 3: In small groups: consider the following scenario**

TempleBank runs a free day care service for all of its employees. The company wants to more easily identify employees who use the service and also needs to parents where to pick up their kids.

* Each employee can have multiple children enrolled in the daycare center.
* Employees can be described by their employee ID number, first name, last name, phone number and work location.
* Children can be described by their first name, last name, gender, and date of birth.
* Because children are provided with lunch and snacks, it is important to track dietary restrictions (e.g., gluten‐free, vegetarian, vegan, food allergies, etc.). Each child is assigned to one of 3 rooms based on age, maturity, and parents work location.

1. Identify entities (hint: there are at least 3) and relationships among the entities

2. Identify multiple attributes for each entity.

**Step 4: Discuss as a class**

**Step 5: In small groups: consider the following scenario**

A wedding party DJ to create a database to keep track of their Compact Disc collection. For each CD relevant info includes genre, artist, songs and key information about each song.

*A. Identify entities, 3-5 attributes per entity, and relationships*

*B. Draw a simple entity relationship diagram*

**Step 6: Draw diagram on board and discuss as a class**

**Step 7: Answer four short-answer questions (individually)**

1. When you think an entity relationship diagram is most useful?

2. What do you think are the most common types of errors made when creating an ERD?

**Step 8: Rate this activity (individually)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Ratings** | 1 Completely Disagree | 2 Somewhat Disagree | 3 Neutral | 4 Somewhat Agree | 5 Completely Agree |

|  |  |
| --- | --- |
| **Statement** | Rating (1 to 5) |
| This is an engaging activity. |  |
| I learned a lot completing this activity. |  |
| This activity should be included in future classes. |  |
| Anything else you want the instructor to know? | |

**Step 9: Submit completed activity sheet by emailing it from your Temple email address to upload.Unit\_2\_.xacmzhu71j@u.box.com**