Project 2 – Project Online Apparel Return Induced Trash

Project 2 will be divided into three phases:

Phase 1: Domain Selection and presentation **(5% of project 2 grade)**

Phase 2: Requirements, EER, Schema, database creation **(5% of project 2 grade)**

Phase 3: Com Comprehensive presentation (At most 20 slides + 1 cover page + 1 references) of each group's complete Project Trash. (90% of project 2 grade)

Phase 1: Domain Selection and presentation (At most 10 slides + 1 cover slide + 1 slide for references)

- What is the name of your company?
- Name at least one real life company that is or could be your competitor and why? (can be more)
- Name at least one real life company with whom you could collaborate and how? (can be more)
- What is the geographical area where your company operates?
- What is the domain in which your company operates?
- Why did you choose this domain?
- What kinds of services does your company offer?
- What kind of impact will your company have **on problems caused by online apparel returns?**
- Is there any other area that your company will affect positively?
- Support your answers with some statistics from some reliable sources. Include your references
- Share at least one sticky statistics slide (Slide 5 in 2020 Spring_Project_2.ppt). Cite your sources. We will compile all the sticky statistics slides from both sections together.

At most 9 minutes will be given to each team.

Each member must speak and take part in the team presentation. Out of the 9 minutes allocated to each team, 4 minutes will be reserved for question and answer sessions. Each team is responsible for their own time keeping. Presentation/Team time will end at the allocated 9 minutes.

Phase 2: Requirements, EER, Schema, database creation (At most 10 slides + 1 cover slide + 1 slide for references)

- Write requirements for a mini world from your trash application database.
- Describe entities, (their attributes), relationships, any special requirements as needed
- Create a conceptual schema database design using the ER/EER model
- Convert it to a **relational (tabular) schema** using the rules for ER/EER-to-relational (tabular) mapping
- Must include at least 3 entity types (with at least 2 attributes each).
- Try to include **at least 3 relationships** including **at least one 1:1 relationship**, **at least one 1: N relationship**, **at least one M: N relationship**.
- Try to include **at least one weak entity type**.
- Create realistic looking data for your database. This data will be required in Phase three and extremely critical for the success of your Project Trash Phase III
- Prepare a 5-6 minutes (but no longer than 6 minutes) video presentation of your work and share it with your TA so that it can be uploaded on the class website.

This project phase has the following deliverables: A PowerPoint presentation (including requirements/mini world description, ER/EER, Schema), proof of start of work on realistic data, and a short video presenting your work.

At most 9 minutes will be given to each team.

Each member must speak and take part in the team presentation. Out of the 9 minutes allocated to each team, 4 minutes will be reserved for question and answer sessions. Each team is responsible for their own time keeping. Presentation/Team time will end at the allocated 9 minutes.

Phase 3: Comprehensive presentation (At most 20 slides + 1 cover page + 1 references) of each group's complete Project Trash.

This will include the following:

1. A presentation that includes:
    - **Cover page:** Course name, University name, Team members' names, your company name, Instructor and both TA's names
    - Brief explanation for domain choice
    - Brief explanation- How does your company alleviate the **online apparel returns induced** trash problem
    - At least one sticky statistics slide (Slide 5 in 2020 Spring_Project_2.ppt). Cite your sources. (We will compile all the sticky statistics slides from both sections together.)
    - Requirements/Design/Implementation:
        - Textual description of your database requirements
        - EER (made with a tool)
        - Schema (made with a tool)
        - Database/Tables/Queries/Views/Web Interface
    - Brief view of scripts to create Database/Tables/Queries/Views/Web Interface
    - Brief view of Data files with realistic data contents
    - Scripts to populate your database.
    - Brief explanation- How does the database and interface fulfill your business requirements
    - Any influence the domain research has had on your lifestyle.
2. Video - will highlight your ability to complete a database project from start to finish.
    - At most 15 minutes long video on your complete project – preferred length 10 minutes.
    - Includes
        - Course name, University name, Team members, your company name
        - Rationale/explanation for selecting the mini domain
        - Course name, University name, Team members' names
        - Explanation for domain choice
        - Brief explanation- How does your company alleviate the world trash problem
        - Textual description of your database requirements
        - EER (made with a tool)
        - Schema (made with a tool)
        - Database/Tables/Queries/Views/Web Interface
        - Brief view of scripts to create Database/Tables/Queries/Views/Web Interface
        - Brief view of Data files with realistic contents
        - Brief view of scripts to populate your database
        - Brief explanation- How does the database and interface fulfill your business requirements
        - Any influence the trash domain research and work has had on your lifestyle
3. Project files – zipped and uploaded in canvas. **50%-point deduction if ANY of the following project file components are missing in your zip file.**
    - Presentation slides.
    - Scripts to create Database/Tables/Queries/Views/Web Interface.
    - Data files with realistic contents.
    - Scripts to populate your database.
    - Link for your video file or the video itself.
    - A written report includes:
        - Any influence the trash domain research and work has had on your lifestyle.
        - Step by step explanation of how to upload/execute your project.

- List of all technologies used for each phase (OS, EER, Schema tools, Database, Scripting Language etc.)
- List of references (tools, tutorials, references, web sites, books etc.)

4. Additional details
    - Each table must have at least 4 records
    - Each group's solution must include **3 query results based directly on the tables** (at least 1 select, 1 update, 1 delete) and retrieved via the web interface (on the same web page or different pages)
    - Each solution must include at least 1 view and at least **2 query results based on the view**(s). The results must be displayed using the web interface (on the same web page or different pages)

At most 20 minutes will be given to each team.

Each member must speak and take part in the team presentation. Out of the 20 minutes allocated to each team, 5 minutes will be reserved for question and answer sessions. Each team is responsible for their own time keeping. Presentation/Team time will end at the allocated 20 minutes.

All teams and team members need to be present for all the presentations to receive grades.

Project 2 Phase 3 submission deadline: May 3, 2020, Midnight. You will be presenting your work on May 4 or 6.