Entity Relationship Diagram Assignment

Assignment 1

UPS prides itself on having up-to-date information on the processing and current location of each shipped item. To do this, UPS relies on a company-wide information system. Shipped items are the heart of the UPS product tracking information system. Shipped items can be characterized by item number (unique), weight, dimensions, insurance amount, destination, and final delivery date. Shipped items are received into the UPS system at a single retail center. Retail centers are characterized by their type, uniqueID, and address. Shipped items make their way to their destination via one or more standard UPS transportation events (i.e., flights, truck deliveries). These transportation events are characterized by a unique scheduleNumber, a type (e.g, flight, truck), and a deliveryRoute.

Questions:

a. Create an Entity Relationship diagram that captures this information about the UPS system. Be certain to indicate identifiers and cardinality constraint.

b. Convert the ERD diagram into a relational database schema. Be certain to indicate primary keys and referential integrity constraints.

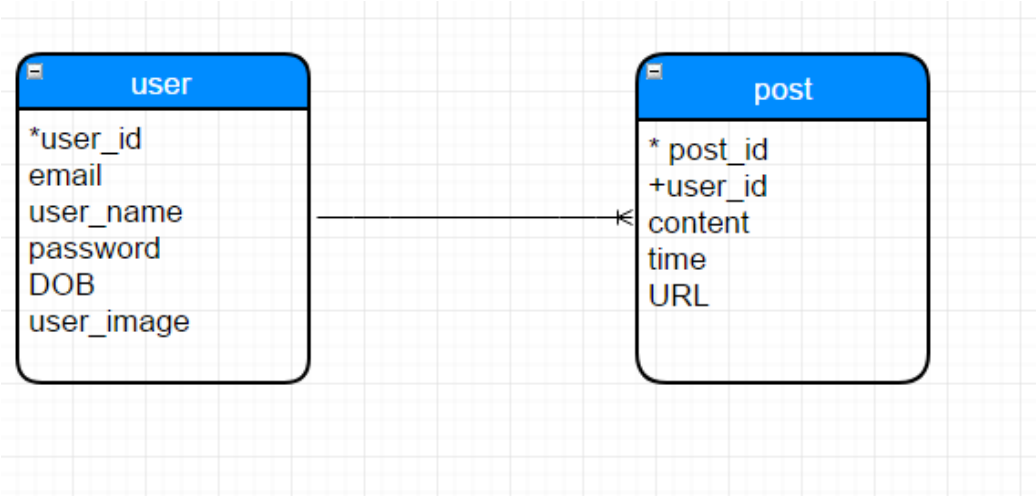
Assignment 2

Description: Create an appropriate Entity Relationship Diagram (ERD) for the data associated with an online application. This ERD should include the user accounts, posts and re-posts tables. To get you started, you can follow the example given below.

User table: The User table collect attributes: user_id(*primary key), user_email, user_name, user_password user_DOB, User_image and etc.

Post table: The post table collect attributes: post_id(*primary key), user_id (+foreign key), post_detail, post_date, URL and etc.

Re-post table: What attributes should Re-post table collect?



General submission instructions:

- The assignment may be completed individually or in pairs (2 students).
- The assignment should be submitted as a **pdf file** at the course site. Names and ID numbers of the submitting students should be clearly printed.
- The ER diagrams should be created using your preferred graphical application (e.g. draw.io, vision, PowerPoint, paint, etc.)
- The tool https://www.draw.io/ is a free online software for making ER Diagrams and is highly recommended for this exercise.