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Submitted to

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***BS-Software Engineering 4th-E***

Title: ERD DIAGRAM

DBMS

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DBMS (MySQL)

# ERD DIAGRAM

**For the following scenario; Draw ER diagram.**

**SCENARIO:**

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 delivery Route. Please create an Entity Relationship diagram that captures this information about the UPS system. Be certain to indicate identifiers and cardinality constraints.

Process of Developing ERD:

**Identify the entity:**

* Shipped Items
* Retail Centre
* UPS transportation events

**Identify the entity's attributes:**

**Shipped Items**

1. Item no.
2. Weight
3. Destination
4. Item delivery date
5. Insurance Amount
6. Dimension

**Retail Centre**

1. Unique ID
2. Address
3. Type

**UPS transportation events**

1. Schedule
2. Event Type
3. Delivery Route

**Identify the relationship between entities:**

* Retail centers to shipped items (one to many)
* Item transportation to shipped items (many to many)
* Item transportation to transportation events (many to many)

**Identify the Cardinality constraint:**

* One to many
* Many to many

**Draw the ERD:**

Shipped Items

Retail Center

Transportation

Event

Received

From

Shipped Via

ItemNumber

Dimension

Weight

InsuranceAmt

Destination

FinalDellivery

Date

Type

UniqueID

Address

Type

ScheduleNumber

DeliveryRout