# King Fahd University of Petroleum & Minerals College of Computer Sciences and Engineering

Information and Computer Science Department

ICS 321

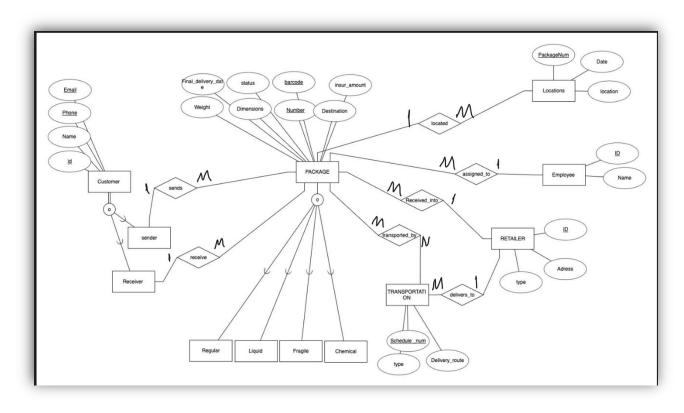
### Phase I

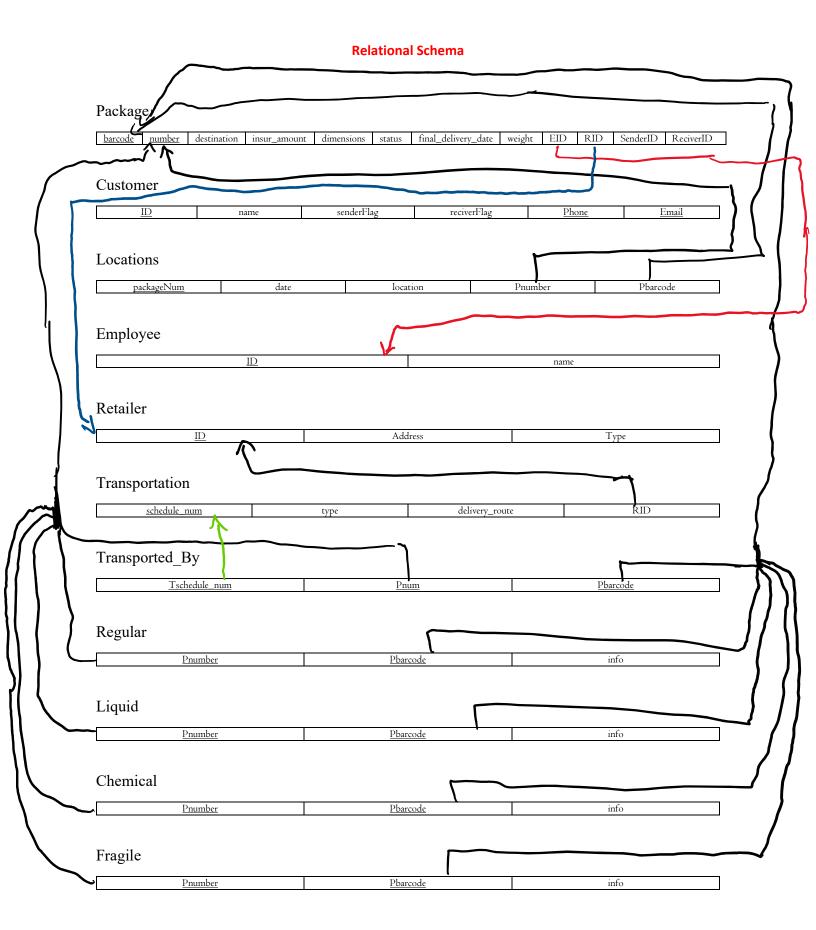
Date of submission: 11/18/2022

Team number: 69

Name	ID	Effort
Ali Aleid	201927190	33.3333333333333%
Abdulaziz Alsouhibani	201922670	33.3333333333333%
MSHARI ALKHALIFAH	201957090	33.3333333333333%

## EER





#### **Constraints and Business rules**

- a) The packages are categorized as Regular, Fragile, Liquid, Chemical etc.
- b) The status of the packages is as follows in transit, delivered, lost or damaged.
- c) The value and insurance amount of the package is maintained as well as the payment to the company based on weight as cost for delivering the package.
- d) Any company employee or customer should be able to search their packages by their ID, category, city and delivery date.
- e) The movement history including the current place of the package in transit must be produced upon request.
- f) The system should be able to retrieve information of packages not delivered, damaged or lost.
- g) The system should identify fines for delayed packages. For lost or damaged packages, the insurance amount is delivered to the customer instead of the package.
- h) The system should be able to send notifications whenever the packages become available for delivery as well as if they are delayed.
- i) Each package will have a unique barcode that the system will be able to read.

#### **Tools & Resources**

https://erdplus.com/