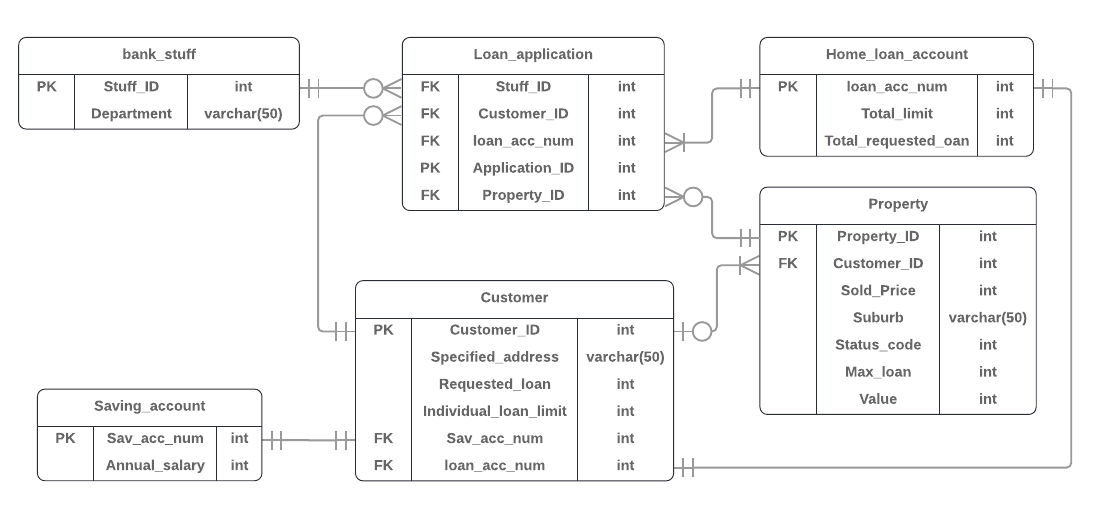
YANJUN CHEN

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assignment 1a

SIT772

### Task 1.1



### Task 1.2

The digraph meets following requirements:

* Every customer should own a saving account and a property address. They may not own a home loan account yet, or already own their only loan account.
* A stuff may never support an application, but an application must be support by one stuff.
* Each customer has her/his own home loan max limit.
* One customer can apply loan for more than one property.
* One customer can own more than one property.
* A property must have maximum home loan and value.
* A property may not have a buyer yet, or maybe have been involved into loan application more than once since its owner changed.
* One home loan account should link with a customer, or maybe link with many customers.

The digraph meets following transactions:

* A customer can start a loan application with help from a stuff, for one property and on a loan account at once.
* A customer can start many applications on one loan account to allow this account to cover new properties.
* A loan account can be applicated for many times to allowed new customer to join or some new loan to be applied.

The diagram has following limitations:

* It can’t show the relationship between property value and the average of the sold price of the properties located in the same suburb.
* It can’t show that a customer’s requested loan limitation is depends on their total salary in ten years.
* It can’t show how the max loan limitation of a property has been calculated.
* It can’t help customer to request home loan that lower than their loan limitation.
* It can’t show that the home loan limit of a joint account depends on all the joint customers in the home loan
* It can’t show the rule that a customer should own a saving account before own a loan account.

### Task 1.3

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generatedText

Description automatically generated

Text

Description automatically generated with medium confidenceText

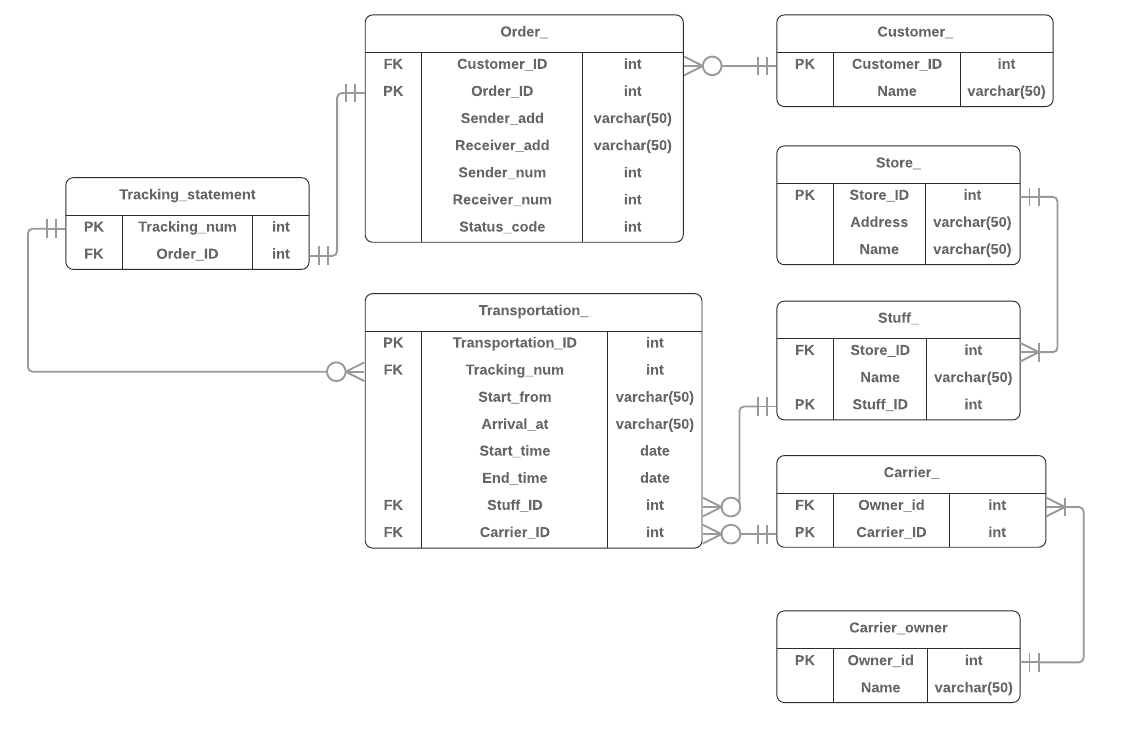
Description automatically generated

### Task 2.1

Let’s assume we are making ERD for a delivery company which is similar but much smaller than Australia Post, and following are requirements:

* Each customer will have a customer ID.
* After a customer pay for a delivery, he or she will have a receipt with an order number and a tracking number.
* A tracking number will help with tracking their parcel. A tracking statement should display its tracking number and all the completed transportation activities that made the parcel moves.
* A transportation activity has its ID, starting place and arriving place, starting time and arriving time. When it finishes, a stuff should confirm it and signed, and fill the ID of the vehicle which finished this transportation.
* Only one vehicle be used during one transportation. When there’s another vehicle carries the parcel, there should be a different transportation with different transportation ID.
* Each vehicle has their owner, and each owner may have more than one vehicle.
* Each stuff of this company works in a store and has an ID. This company has many stores and each of them has an ID.

### Task 2.2



### Task 2.3Graphical user interface, text, application, email Description automatically generatedGraphical user interface, text, application Description automatically generatedText Description automatically generated with medium confidence

Text

Description automatically generated with medium confidence

Text

Description automatically generated