Leonell Puso
CSC 174
Prof. Kathy Applebaum
17 February 2022

HOMEWORK # 2

BOAT

vessel_id	name	year_built	boat_type	#_of_bedrooms	TEUs

RENTS

rental_date	return_date	vessel_id	customer_id

CUSTOMER

customer_id

BUSINESS

TIN	name	address

BILLIONAIRE

id	name	swiss_account_#

ASSISTANT

name	phone	boss_id
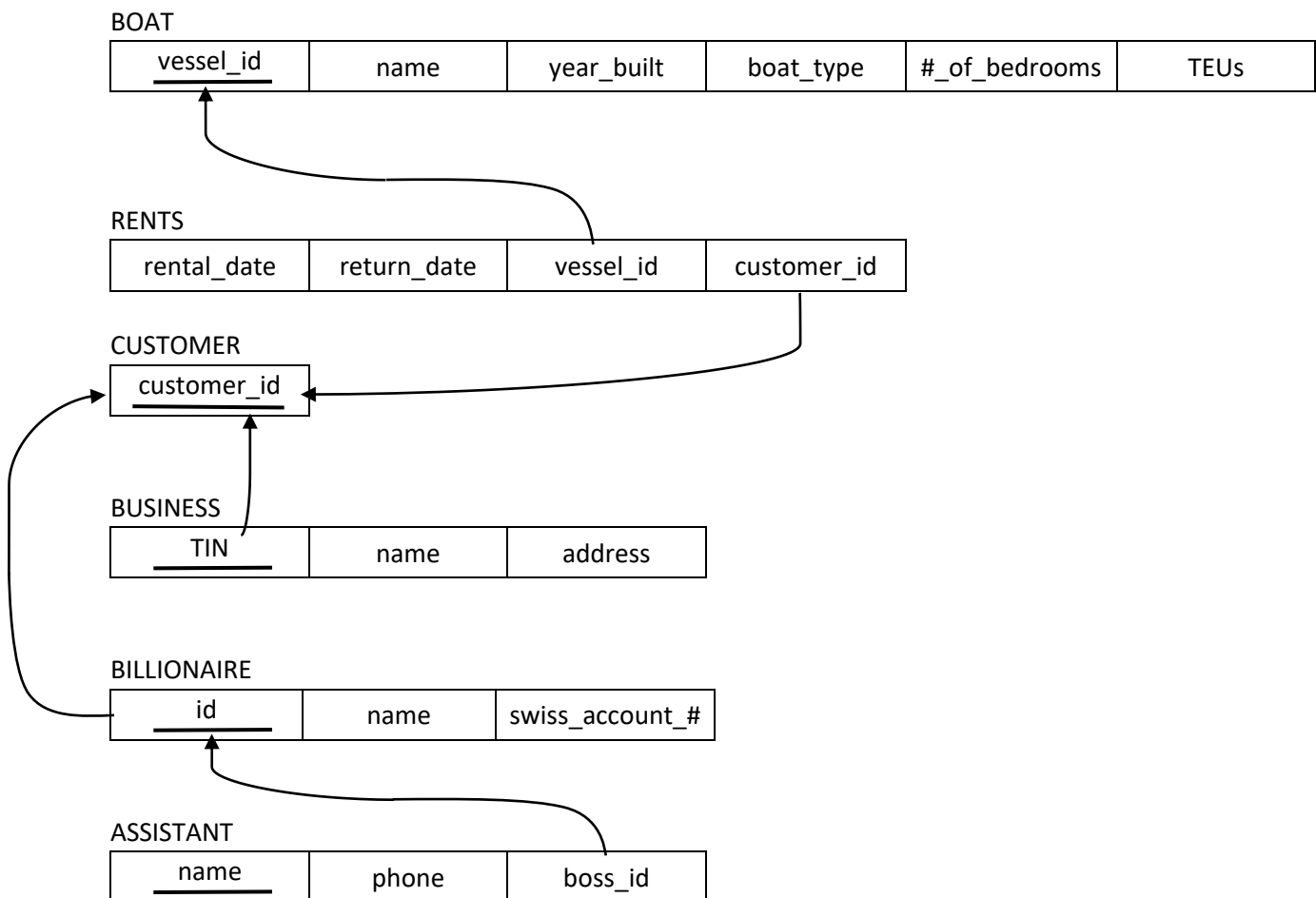
The disjoint constraint in BOAT entity between YACHT and CARGO_SHIP will be enforced using a trigger. The attribute boat_type will use an enum (yacht, cargo, null) and will show an error and reject an entry if there is a breach in disjoint constraint in the following:

boat_type	#_of_bedroom	TEUs	STATE
yacht	not null	not null	error
yacht	not null	null	OK
cargo	not null	not null	error
cargo	null	not null	OK

Attribute TEUs cannot have a value if boat_type is yacht.
Attribute #_of_bedrooms cannot have a value if boat_type is cargo.
If boat_type is null then all accompanying attributes should be null to show partial participation.

Example rows of BOAT:

vessel_id	name	year_built	boat_type	#_of_bedrooms	TEUs
0156	Going Merry	1997	yacht	5	null
0880	LuMeat	2012	cargo	null	500
6429	Thousand Sunny	2008	null	null	null