Business Rules - Constraints

Business Rules – Constraints	
BR1	Every rentalShips or ownShips entry must have a Ships entry to associate it with.
	Every rentalContracts Entry must have a rentalShip and a rentalCompany added to their
BR2	tables respectively.
BR3	Every haveCrew entry must have a Ship to associate it with.
BR4	Every wherePorted entry must have a Ship to associate it with.
BR5	Every Crews entry must have a haveCrew entry to associate it with.
BR6	Every carriageContracts entry must have a Customers entry to associate it with.
	Every Missions entry must have both a carriageContracts entry and a Ships entry to
BR7	associate it with.
BB0	Every haveStaff must only be added after a proper Ships entry has been assigned to the
BR8	Missions entry.
BR9	Every haveStaff entry must only be added if the staff is available in the Missions entry date parameters.
BRa	Every Ships entry associated with the Missions entry must satisfy availability within the
BR10	Missions entry date Parameters.
	Every Ships entry associated with the Missions entry must satisfy same wherePorted or Ports
BR11	entry in repect to the Missions entry date parameters.
	Every haveStaff entry should satisfy the Qualifications of the Crews entry associated via
BR12	haveCrew entry to the Ships entry which is in turn associated with the Missions entry.
BR13	Every haveStaff entry must correspond to a Employees entry already present.
BR14	Every containers entry must correspond to a Missions entry already present.
BR15	Every Routes entry must correspond to a Missions entry already present.
BR16	Every Points entry must correspond to a Routes entry already present.
BR17	Every Ports entry must correspond to a Routes entry already present.
Business Rules – Derivations	
	calculateTurnOver of the last 30 days is obtained by summing price cell of the Missions
BR18	entries that have stipulationDate cell which has less than 30 days difference from now.
	detectCollision is obtained by comparing likeliness in coordinates cell in Points entries
DD10	corresponding to Routes entries corresponding to Missions entries that have intersecting startDate and endDate cell values.
BR19	
BR20	missionLoad is obtained by summing the number of Containers entries associated with the Missions entry.
DIVZO	missionValidity is obtained by comparing missionLoad of the Missions entry to the tonnage of
BR21	the associated Ships entry
_· · _	checkPersonnelNo is obtained by summing the number of haveStaff entries corresponding to
BR22	the Missions entry.
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