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| *Entity name* | *Brief Description* |
| w1810872\_Island | General term describing all islands with attractive sites including mainland, that belong to ArchipelagoCrazy. |
| w1810872\_Boat | General term describing all types of boats that belong to ArchipelagoCrazy. |
| w1810872\_LargeMotorizedBoat | Specialised term that describes the larger boats that can handle higher number of customers who have booked service from ArchipelagoCrazy. |
| w1810872\_PaddlePropelledBoats | Specialised term that describes simple paddle boats that is used by ArchipelagoCrazy customers to explore an island locally. |
| w1810872\_SmallerMotorizedBoat | Specialised term that describes smaller boats which can carry 6 – 8 customers who has booked for local beach taxi service from ArchipelagoCrazy. |
| w1810872\_Customer | General term that describes all customers of ArchipelagoCrazy. |
| w1810872\_Booking | General term that describes bookings placed for services offered by ArchipelagoCrazy. |
| w1810872\_Adventure | General term that describes all adventures organised by ArchipelagoCrazy. |
| w1810872\_SeaAdventure | Specialised term that describes adventures in the sea. |
| w1810872\_SeaCrossing | Specialised term that describes a type of sea adventure, which is for crossing between two or more islands. |
| w1810872\_BeachTaxiService | Specialised term that describes a type of sea adventure which is about moving between beaches. |
| w1810872\_MarineExploration | Specialised term that describes a type of sea adventure which is to explore an island locally. |
| w1810872\_LandAdventure | Specialised term that describes adventures in the land |
| w1810872\_VisitLandmark | Specialised term that describes a type of land adventure to visiting landmarks in an island. |
| w1810872\_walkTour | Specialised term that describes a land adventure of walking in an island with a tour guid. |
| w1810872\_Employee | General term describing all staff members employed by ArchipelagoCrazy. |
| w1810872\_Guid | Specialised term describing the guides of ArchipelagoCrazy that belongs to general term staff. |
| w1810872\_SeaCrewMember | Specialised term describing all members of the sea crew that belongs to general term staff. |
| w1810872\_BoatMechanic | Specialised term describing the boat mechanics that belongs to the general term staff. |
| w1810872\_BoatService | General term describing all types of services done to boats. |
| w1810872\_Meal | General term describing all meals organized by ArchipelagoCrazy. |

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| General entity | Specialised entity | Brief Explanation |
| w1810872\_Boat | w1810872\_LargeMotorizedBoat | A specialised term that describes large boats which can handle higher number of customers. |
| w1810872\_PaddlePropelledBoats | A specialised term that describes a boat which can be used for marine exploration. |
| w1810872\_SmallerMotorizedBoat | A specialised term that describes small boat which can be used for local beach taxi service. |
| w1810872\_Adventure | w1810872\_SeaAdventure | A specialised term that describes adventures related to sea. |
| w1810872\_LandAdventure | A specialised term that describes adventures related to land. |
| w1810872\_SeaAdventure | w1810872\_SeaCrossing | A specialised term describing the sea adventure of crossing between one or more islands. |
| w1810872\_BeachTaxiService | A specialised term describing the sea adventure of moving between beaches. |
| w1810872\_MarineExploration | The specialised term that describes the sea adventure of exploring islands, accessing remote bays and creeks. |
| w1810872\_LandAdventure | w1810872\_VisitLandmark | A specialised term that describes the land adventure of visiting landmark. |
| w1810872\_walkTour | A specialised term that describes the land adventure of a walking tour with a guid. |
| w1810872\_Emplyee | w1810872\_Guid | A specialised term that describes the tour guid who guides customers as an employee |
| w1810872\_SeaCrewMember | A specialised term for members of the sea crew who organises and manages boat service as an employee. |
| w1810872\_BoatMechanic | A specialised term that describes boat mechanics who services boats as an employee. |

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| Entity name | Multiplicity | Relationship | Multiplicity | Entity name | Brief justifications for the multiplicity (4 statements for each relationship) |
| w1810872\_Customer | 1..1 | places | 1..\* | w1810872\_Booking | One customer must place at least one booking |
| One customer may place many bookings |
| One booking must belong to at least one customer |
| One booking must belong to one and only one customer |
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| w1810872\_Boat |  | carries |  | w1810872\_Customer | A boat may or may not carry a customer to an island. |
| A boat may carry many customers to one islands. |
| A customer must use at least one boat to visit an island. |
| A customer must use one and only one boat to visit an island. |
| An island may or may not be visited by any customer in a boat |
| An island may be visited by many customers in one and only one boat. |
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|  |  |  |  |  |  |
| w1810872\_Booking | 0..\* | consists of | 1..\* | w1810872\_Adventure | One booking consists of at least one adventure |
| One booking may consist of many adventures |
| One adventure may or may not be booked. |
| One adventure may or may be booked by many. |
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|  |  |  |  |  |  |
| w1810872\_LargeMotorizedBoat | 0..1 | carries | 0..\* | w1810872\_Customer | A large motorized boat may or may not carry any customer |
| A large motorized boat may carry many customers. |
| A customer may or may not be carried by any large motorized boat. |
| A customer must be carried by one and only one large motorized boat. |
| w1810872\_PaddlePropelledBoats | 0..1 | carries | 1..2 | w1810872\_Customer | A paddle boat must carry at least one customer |
| A paddle boat can carry a maximum of two customers |
| A customer may or may not be carried by a paddle boat |
| A customer may be carried by one and only one paddle boat |
| w1810872\_SmallerMotorizedBoat | 0..1 | carries | 0..8 | w1810872\_Customer | A small motorised boat may or may not carry any customer. |
| A small motorised boat may carry a maximum of eight customers. |
| A customer may or may not be carried by any small motorised boat. |
| A customer may be carried by one and only one small motorised boat. |
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| w1810872\_Guid |  |  |  | w1810872\_LandAdventure |  |
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| *Entity name* | *Multiplicity* | *Relationship* | *Multiplicity* | *Entity name* | *Brief justifications for the*  *multiplicity (4 statements for each*  *relationship)* |
|  |  |  |  |  |  |
| w1810872\_Customer | 1..1 | places | 1..\* | w1810872\_Booking | One customer must place at least one booking |
| One customer may place many bookings |
| One booking must belong to at least one customer |
| One booking must belong to one and only one customer |
| w1810872\_Boat |  | carries |  | w1810872\_Customer | A boat may or may not carry a customer to an island. |
| A boat may carry many customers to one islands. |
| A customer must use at least one boat to visit an island. |
| A customer must use one and only one boat to visit an island. |
| An island may or may not be visited by any customer in a boat |
| An island may be visited by many customers in one and only one boat. |
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| w1810872\_Booking | 0..\* | consists of | 1..\* | w1810872\_Adventure | One booking consists of at least one adventure |
| One booking may consist of many adventures |
| One adventure may or may not be booked. |
| One adventure may or may be booked by many. |
|  |  |  |  |  |  |
| w1810872\_LargeMotorizedBoat | 0..1 | carries | 0..\* | w1810872\_Customer | A large motorized boat may or may not carry any customer |
| A large motorized boat may carry many customers. |
| A customer may or may not be carried by any large motorized boat. |
| A customer must be carried by one and only one large motorized boat. |
| w1810872\_PaddlePropelledBoats | 0..1 | carries | 1..2 | w1810872\_Customer | A paddle boat must carry at least one customer |
| A paddle boat can carry a maximum of two customers |
| A customer may or may not be carried by a paddle boat |
| A customer may be carried by one and only one paddle boat |
| w1810872\_SmallerMotorizedBoat | 0..1 | carries | 0..8 | w1810872\_Customer | A small motorised boat may or may not carry any customer. |
| A small motorised boat may carry a maximum of eight customers. |
| A customer may or may not be carried by any small motorised boat. |
| A customer may be carried by one and only one small motorised boat. |
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| w1810872\_Guid |  | runs | 0..\* | w1810872\_LandAdventure | One guide may or may not run any land adventure |
| One guide may run many land adventures |
| One land |
| A customer may be carried by one and only one small motorised boat. |
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Assumptions

* Assumed that each customer has placed at least one booking.
* Assumed that a boat may be taken by only the sea crew for service purpose in some scenarios.