| CUSTOMER | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| ***Attribute\_Name*** | ***KEY*** | ***INDEX*** | ***Data Type & Size*** | ***Domains & Constraints*** | ***FK Reference*** | ***Description*** |
| customer\_id | PK | Y | SERIAL |  |  |  |
| address\_id | FK |  | INT | NOT NULL | address.address\_id |  |
| customer\_fname |  |  | VARCHAR(64) | NOT NULL |  | This field represents the first name of the customer |
| customer\_lname |  |  | VARCHAR(64) |  |  |  |
| customer\_tel |  | Y | VARCHAR(20) | NOT NULL;UNIQUE |  | This field stores the telephone number of the customer. |
| customer\_email |  | Y | VARCHAR(254) | NOT NULL;UNIQUE |  | This field contains the email address of the customer. |
| customer\_priv |  |  | BOOLEAN |  |  |  |

| ADDRESS | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| ***Attribute\_Name*** | ***KEY*** | ***INDEX*** | ***Data Type & Size*** | ***Domains & Constraints*** | ***FK Reference*** | ***Description*** |
| adress\_id | PK |  | SERIAL |  |  |  |
| county\_id | FK |  | ?INT | NOT NULL | country.country\_id |  |
| adress\_post\_code |  | Y | VARCHAR(8) |  |  |  |
| adress\_name\_one |  | Y | VARCHAR(50) | NOT NULL |  | Primary line of the address, capturing street details, building names, or block information |
| adress\_name\_two |  |  | VARCHAR(50) |  |  |  |

| COUNTRY | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| ***Attribute\_Name*** | ***KEY*** | ***INDEX*** | ***Data Type & Size*** | ***Domains & Constraints*** | ***FK Reference*** | ***Description*** |
| country\_id | PK |  | SERIAL |  |  |  |
| country\_name |  | Y | VARCHAR(30) | NOT NULL |  | The county\_name field stores the name of the county associated with an address. |

| BOAT | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| ***Attribute\_Name*** | ***KEY*** | ***INDEX*** | ***Data Type & Size*** | ***Domains & Constraints*** | ***FK Reference*** | ***Description*** |
| boat\_id | PK |  | SERIAL |  |  |  |
| customer\_id | FK |  | INT | NOT NULL;UNIQUE | customer.customer\_id |  |
| ? |  |  |  |  |  |  |

| SERVICE | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| ***Attribute\_Name*** | ***KEY*** | ***INDEX*** | ***Data Type & Size*** | ***Domains & Constraints*** | ***FK Reference*** | ***Description*** |
| service\_id | PK |  | SERIAL |  |  |  |
| boat\_id | FK |  | INT | NOT NULL;UNIQUE | boat.boat\_id |  |
| service\_cost |  | Y | DECIMAL(12, 2) | NOT NULL |  | Cost per service |

| TYPE | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| ***Attribute\_Name*** | ***KEY*** | ***INDEX*** | ***Data Type & Size*** | ***Domains & Constraints*** | ***FK Reference*** | ***Description*** |
| type\_id | PK |  | SERIAL |  |  |  |
| type\_name |  | Y |  | NOT NULL |  | This field contains type of the service |

| STAFF\_SERVICE | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| ***Attribute\_Name*** | ***KEY*** | ***INDEX*** | ***Data Type & Size*** | ***Domains & Constraints*** | ***FK Reference*** | ***Description*** |
| staff\_id | PK/FK |  | INT |  | staff.staff\_id |  |
| service\_id | PK/FK |  | INT |  | service.service\_id |  |

| STAFF | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| ***Attribute\_Name*** | ***KEY*** | ***INDEX*** | ***Data Type & Size*** | ***Domains & Constraints*** | ***FK Reference*** | ***Description*** |
| staff\_id | PK |  | SERIAL |  |  |  |
| address\_id | FK |  | SERIAL |  | address.address\_id |  |
| staff\_fname |  | Y | VARCHAR(64) | NOT NULL |  | This field represents the first name of the staff member |
| staff\_lname |  |  | VARCHAR(64) |  |  |  |
| staff\_tel |  | Y | VARCHAR(20) | NOT NULL;UNIQUE |  | This field represents telephone number of staff member |
| staff\_email |  | Y | VARCHAR(254) | NOT NULL;UNIQUE |  | This field represents the email address of staff member |

| STAFF\_ROLE | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| ***Attribute\_Name*** | ***KEY*** | ***INDEX*** | ***Data Type & Size*** | ***Domains & Constraints*** | ***FK Reference*** | ***Description*** |
| role\_id | PK/FK |  | INT |  | role.role\_id |  |
| staff\_id | PK/FK |  | INT |  | staff.staff\_id |  |

| ROLE | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| ***Attribute\_Name*** | ***KEY*** | ***INDEX*** | ***Data Type & Size*** | ***Domains & Constraints*** | ***FK Reference*** | ***Description*** |
| role\_id | PK |  | SERIAL |  |  |  |
| role\_name |  | Y | VARCHAR(64) | NOT NULL |  | This field contains assigned role |

| HISTORY | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| ***Attribute\_Name*** | ***KEY*** | ***INDEX*** | ***Data Type & Size*** | ***Domains & Constraints*** | ***FK Reference*** | ***Description*** |
| history\_id | PK |  | SERIAL |  |  |  |
| service\_id | FK |  | INT |  | service.service\_id |  |
| history\_update |  | Y | ? | NOT NULL |  | This field keeps the record of update related information |

| YARD | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| ***Attribute\_Name*** | ***KEY*** | ***INDEX*** | ***Data Type & Size*** | ***Domains & Constraints*** | ***FK Reference*** | ***Description*** |
| yard\_id | PK |  | SERIAL |  |  |  |
| address\_id | FK |  | INT |  | address.address\_id |  |
| yard\_size |  | Y | DECIMAL(12, 2) | NOT NULL |  | This field contains size of the yard |

| STAFF\_YARD | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| ***Attribute\_Name*** | ***KEY*** | ***INDEX*** | ***Data Type & Size*** | ***Domains & Constraints*** | ***FK Reference*** | ***Description*** |
| staff\_id | PK/FK |  | INT |  | staff.staff\_id |  |
| yard\_id | PK?FK |  | INT |  | yard.yard\_id |  |

| FAULT | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| ***Attribute\_Name*** | ***KEY*** | ***INDEX*** | ***Data Type & Size*** | ***Domains & Constraints*** | ***FK Reference*** | ***Description*** |
| fault\_id | PK |  | SERIAL |  |  |  |
| category\_type | FK |  | INT |  |  |  |
| fault\_name |  | Y | VARCHAR(255) | NOT NULL |  | This field contains fault |

| CATEGORY | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| ***Attribute\_Name*** | ***KEY*** | ***INDEX*** | ***Data Type & Size*** | ***Domains & Constraints*** | ***FK Reference*** | ***Description*** |
| category\_id | PK |  | SERIAL |  |  |  |
| category\_type |  | Y | ? | NOT NULL |  | This field contains type of the category |

| SERVICE\_FAULT | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| ***Attribute\_Name*** | ***KEY*** | ***INDEX*** | ***Data Type & Size*** | ***Domains & Constraints*** | ***FK Reference*** | ***Description*** |
| service\_id | PK/FK |  | INT |  |  |  |
| fault\_id | PK/FK |  | INT |  |  |  |

ERD

* type \_id not included as FK in service
* Boat’s 3rd attribute fuel fuel?
* In staff adress\_id data type not mentioned
* In role role name varchar(?) not defined
* History and history\_type incomplete
* In yard yad\_id and adress\_id data type missing
* In fault category\_id and fault\_name datatypes
* In category category.type data type missing