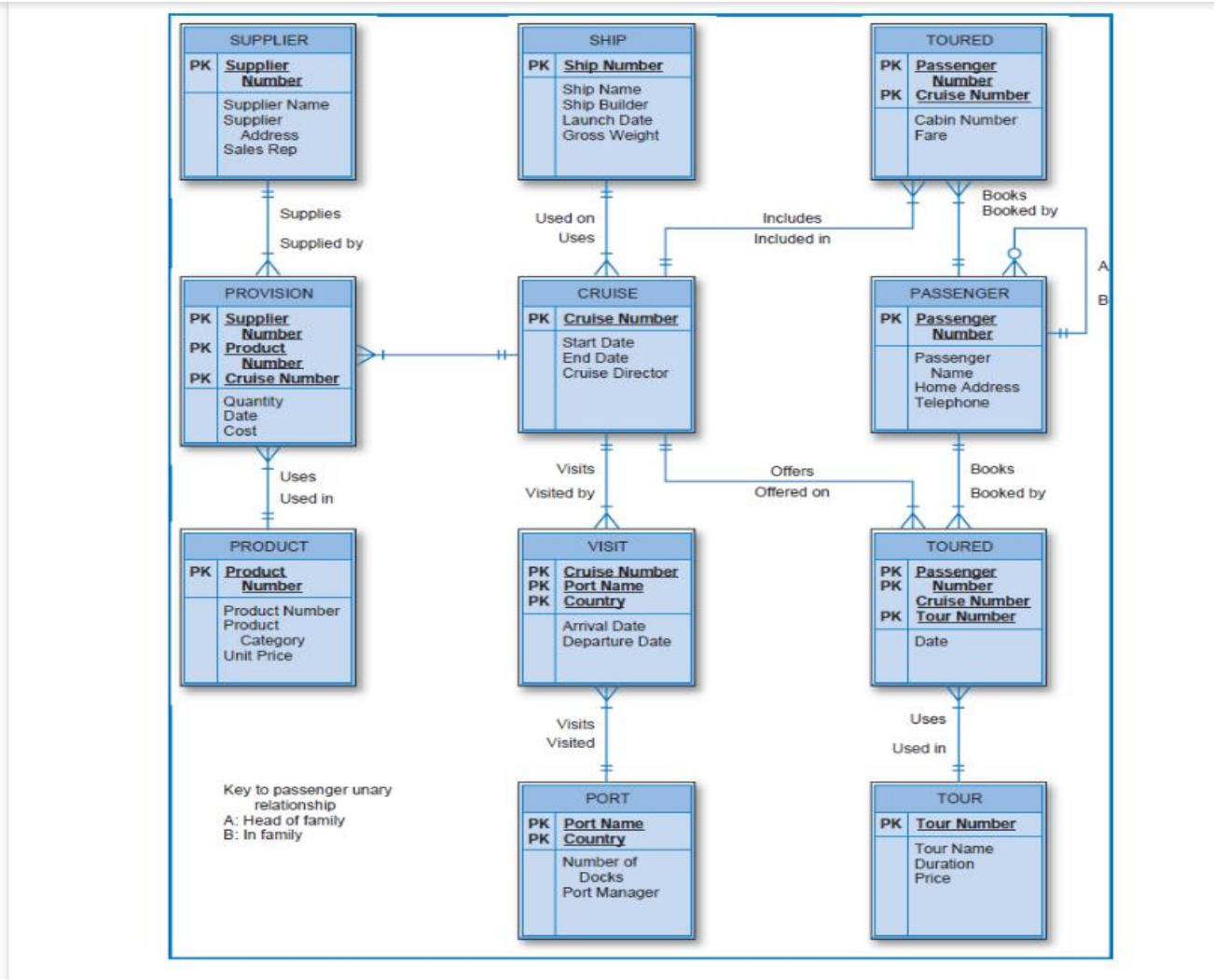
ASSIGNMENT 15

Q1. Happy Cruise Lines Database



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1) Database Happy_Cruise_Lines_Database

```
mysql> show tables;
+----------------------------------------+
| Tables_in_happy_cruise_lines_database |
+----------------------------------------+
| cruise                                 |
| passenger                              |
| port                                   |
| product                                |
| provision                              |
| ship                                   |
| supplier                               |
| tour                                   |
| toured                                 |
| toured2                                |
| visit                                  |
+----------------------------------------+
11 rows in set (0.00 sec)
```

2)Supplier Table

```
create table Supplier
(
  Supplier_Number int not null primary key,
  Supplier_Name varchar(233) not null,
  Supplier_Address varchar(233) not null,
  Sales_Rep varchar(233) not null
);
```

```
mysql> desc supplier;
+------------------+-------------+------+-----+---------+-------+
| Field            | Type        | Null | Key | Default | Extra |
+------------------+-------------+------+-----+---------+-------+
| Supplier_Number  | int         | NO   | PRI | NULL    |       |
| Supplier_Name    | varchar(233)| NO   |     | NULL    |       |
| Supplier_Address | varchar(233)| NO   |     | NULL    |       |
| Sales_Rep        | varchar(233)| NO   |     | NULL    |       |
+------------------+-------------+------+-----+---------+-------+
4 rows in set (0.01 sec)
```

3) Product Table

create table Product

(

Product_Number int not null primary key,

Product_Category varchar(233) not null,

Unit_Price float not null

);

```
mysql> desc product;
+------------------+-------------+------+-----+---------+-------+
| Field            | Type        | Null | Key | Default | Extra |
+------------------+-------------+------+-----+---------+-------+
| Product_Number   | int         | NO   | PRI | NULL    |       |
| Product_Category | varchar(233)| NO   |     | NULL    |       |
| Unit_Price       | float       | NO   |     | NULL    |       |
+------------------+-------------+------+-----+---------+-------+
3 rows in set (0.01 sec)
```

4) Ship table

```
create table Ship
(
 Ship_Number int not null primary key,
 Ship_Name varchar(233) not null,
 Ship_Builder varchar(233) not null,
 Launch_Date date not null,
 Gross_Weight float not null
);
```

```
mysql> desc ship;
+--------------+--------------+------+-----+---------+-------+
| Field        | Type         | Null | Key | Default | Extra |
+--------------+--------------+------+-----+---------+-------+
| Ship_Number  | int          | NO   | PRI | NULL    |       |
| Ship_Name    | varchar(233) | NO   |     | NULL    |       |
| Ship_Builder | varchar(233) | NO   |     | NULL    |       |
| Launch_Date  | date         | NO   |     | NULL    |       |
| Gross_Weight | float        | NO   |     | NULL    |       |
+--------------+--------------+------+-----+---------+-------+
5 rows in set (0.01 sec)
```

5) Cruise Table

```
create table Cruise
(
 Cruise_Number int not null primary key,
 start_date date not null,
 end_date date not null,
 cruise_director varchar(233) not null
```

);

```
mysql> desc cruise;
+-----------------+-------------+------+-----+---------+-------+
| Field           | Type        | Null | Key | Default | Extra |
+-----------------+-------------+------+-----+---------+-------+
| Cruise_Number   | int         | NO   | PRI | NULL    |       |
| start_date      | date        | NO   |     | NULL    |       |
| end_date        | date        | NO   |     | NULL    |       |
| cruise_director | varchar(233) | NO   |     | NULL    |       |
+-----------------+-------------+------+-----+---------+-------+
4 rows in set (0.01 sec)
```

6) Provision Table

create table provision

(

Supplier_Number int not null,

Product_Number int not null,

Cruise_Number int not null,

Quantity int not null,

Date date not null,

Cost float not null,

foreign key(Supplier_Number) references Supplier(supplier_number),

foreign key(Product_Number) references Product(product_number),

foreign key(Cruise_Number) references Cruise(Cruise_Number)

);

```
mysql> desc provision;
+-----------------+-------+------+-----+---------+-------+
| Field           | Type  | Null | Key | Default | Extra |
+-----------------+-------+------+-----+---------+-------+
| Supplier_Number | int   | NO   | MUL | NULL    |       |
| Product_Number  | int   | NO   | MUL | NULL    |       |
| Cruise_Number   | int   | NO   | MUL | NULL    |       |
| Quantity        | int   | NO   |     | NULL    |       |
| Date            | date  | NO   |     | NULL    |       |
| Cost            | float | NO   |     | NULL    |       |
+-----------------+-------+------+-----+---------+-------+
6 rows in set (0.01 sec)
```

7)Port Table

```
create table Port
(
 port_Name varchar(233) not null,
 Country varchar(233) not null,
 Number_of_Docks int not null,
 Port_Manager varchar(233),
 primary key(port_Name,Country)
);
```

```
mysql> desc port;
+----------------+-------------+------+-----+---------+-------+
| Field          | Type        | Null | Key | Default | Extra |
+----------------+-------------+------+-----+---------+-------+
| port_Name      | varchar(233) | NO   | PRI | NULL    |       |
| Country        | varchar(233) | NO   | PRI | NULL    |       |
| Number_of_Docks | int         | NO   |     | NULL    |       |
| Port_Manager   | varchar(233) | YES  |     | NULL    |       |
+----------------+-------------+------+-----+---------+-------+
4 rows in set (0.01 sec)
```

8)Visit Table

```
create table visit
(
  Cruise_Number int not null,
  Port_Name varchar(233) not null,
  Country varchar(233) not null,
  Arrival_Date  date not null,
  Departure date not null,
  foreign key(Port_Name,Country) references Port(Port_Name,Country),
  foreign key(Cruise_Number) references Cruise(cruise_number)
);
```

```
mysql> desc visit;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| Cruise_Number | int         | NO   | MUL | NULL    |       |
| Port_Name    | varchar(233) | NO   | MUL | NULL    |       |
| Country      | varchar(233) | NO   |     | NULL    |       |
| Arrival_Date | date        | NO   |     | NULL    |       |
| Departure    | date        | NO   |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
5 rows in set (0.01 sec)
```

9) Passenger Table

```
create table passenger
(
 passenger_Number int not null primary key,
 Passenger_Name varchar(233) not null,
 Home_Address varchar(233) not null,
 Telephone int not null,
 passenger_Numberr int not null,
 foreign key(passenger_numberr) references passenger(passenger_Number)
);
```

```
mysql> desc passenger;
+------------------+-------------+------+-----+---------+-------+
| Field            | Type        | Null | Key | Default | Extra |
+------------------+-------------+------+-----+---------+-------+
| passenger_Number | int         | NO   | PRI | NULL    |       |
| Passenger_Name   | varchar(233) | NO   |     | NULL    |       |
| Home_Address     | varchar(233) | NO   |     | NULL    |       |
| Telephone        | int         | NO   |     | NULL    |       |
| passenger_Numberr | int        | NO   | MUL | NULL    |       |
+------------------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)
```

10) Toured Table

```
create table toured
(
   passenger_number int not null,
   cruise_Number int not null,
   cabin_Number int not null,
   Fare varchar(233) not null,
   foreign key(passenger_number) references passenger(passenger_number),
  foreign key(cruise_number) references cruise(cruise_number)
);
```

```
mysql> desc toured;
+-----------------+-------------+------+-----+---------+-------+
| Field           | Type        | Null | Key | Default | Extra |
+-----------------+-------------+------+-----+---------+-------+
| passenger_number | int         | NO   | MUL | NULL    |       |
| cruise_Number    | int         | NO   | MUL | NULL    |       |
| cabin_Number     | int         | NO   |     | NULL    |       |
| Fare             | varchar(233) | NO   |     | NULL    |       |
+-----------------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

11) Tour Table

create table tour

(

tour_number int not null primary key,

tour_Name varchar(233) not null,

Duration varchar(233) not null,

price float not null

);

```
mysql> desc tour;
+-------------+--------------+------+-----+---------+-------+
| Field       | Type         | Null | Key | Default | Extra |
+-------------+--------------+------+-----+---------+-------+
| tour_number | int          | NO   | PRI | NULL    |       |
| tour_Name   | varchar(233) | NO   |     | NULL    |       |
| Duration    | varchar(233) | NO   |     | NULL    |       |
| price       | float        | NO   |     | NULL    |       |
+-------------+--------------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

12)Toured2 Table

```
create table Toured2
(
 passenger_number int not null,
 cruise_number int  not null,
 tour_number int not null,
 Date1 date not null,
 foreign key(passenger_number) references passenger(passenger_number),
 foreign key(cruise_number) references cruise(cruise_number),
 foreign key(tour_number) references tour(tour_number)
);
```

```
mysql> desc toured2;
+------------------+------+------+-----+---------+-------+
| Field            | Type | Null | Key | Default | Extra |
+------------------+------+------+-----+---------+-------+
| passenger_number | int  | NO   | MUL | NULL    |       |
| cruise_number    | int  | NO   | MUL | NULL    |       |
| tour_number      | int  | NO   | MUL | NULL    |       |
| Date1            | date | NO   |     | NULL    |       |
+------------------+------+------+-----+---------+-------+
4 rows in set (0.01 sec)
```

13)Passenger_Contact Table

```
create table passenger_Contact
(
    passenger_Number  int not null,
   Telphone  int not null,
```

foreign key(passenger_Number) references passenger(passenger_Number)

);

```
mysql> desc passenger_Contact;
+------------------+------+------+-----+---------+-------+
| Field            | Type | Null | Key | Default | Extra |
+------------------+------+------+-----+---------+-------+
| passenger_Number | int  | NO   | MUL | NULL    |       |
| Telphone         | int  | NO   |     | NULL    |       |
+------------------+------+------+-----+---------+-------+
2 rows in set (0.01 sec)
```