

Happy_Cruise_Airlines_DB

1)Supplier Table

create table Supplier (Supplier_number int primary key, Supplier_name varchar(100) not null, supplier_address varchar(200), supplier_rep varchar(50));

```
mysql> create database happy_cruise_lines_db;
Query OK, 1 row affected (0.02 sec)

mysql> use happy_cruise_lines_db;
Database changed
mysql> create table Supplier (Supplier_number int primary key, Supplier_name varchar(100) not
null, supplier_address varchar(200), supplier_rep varchar(50));
Query OK, 0 rows affected (0.05 sec)

mysql> desc Supplier;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Supplier_number | int           | NO   | PRI | NULL    |       |
| Supplier_name   | varchar(100)  | NO   |     | NULL    |       |
| supplier_address | varchar(200)  | YES  |     | NULL    |       |
| supplier_rep    | varchar(50)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

2)Ship Table

create table Ship (ship_number int primary key, ship_name varchar(100) not null, ship_builder varchar(100) not null, launch_date date not null, gross_weight float not null);

```
mysql> create table Ship (ship_number int primary key, ship_name varchar(100) not null, ship_builder varchar(100) not null, launch_date date not null, gross_weight float not null);
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> desc Ship;
```

Field	Type	Null	Key	Default	Extra
ship_number	int	NO	PRI	NULL	
ship_name	varchar(100)	NO		NULL	
ship_builder	varchar(100)	NO		NULL	
launch_date	date	NO		NULL	
gross_weight	float	NO		NULL	

5 rows in set (0.00 sec)

3) Cruise Table

create table Cruise (cruise_number int primary key, start_date date not null ,end_date date not null, cruise_director varchar(100) not null, ship_number int not null, foreign key(ship_number) references Ship(ship_number));

```
mysql> create table Cruise (cruise_number int primary key, start_date date not null ,end_date date not null, cruise_director varchar(100) not null, ship_number int not null, foreign key(ship_number) references Ship(ship_number));
Query OK, 0 rows affected (0.07 sec)
```

```
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(100)	NO		NULL	
ship_number	int	NO	MUL	NULL	

5 rows in set (0.00 sec)

4) Product Table

create table Product (product_number int primary key, product_name varchar(100) not null, product_category varchar(100) not null, unit_price float not null);

```
mysql> create table Product (product_number int primary key, product_name varchar(100) not null, product_category varchar(100) not null, unit_price float not null);
Query OK, 0 rows affected (0.12 sec)

mysql> desc Product;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| product_number | int           | NO   | PRI | NULL    |       |
| product_name   | varchar(100)  | NO   |     | NULL    |       |
| product_category | varchar(100)  | NO   |     | NULL    |       |
| unit_price     | float         | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

5) Tour Table

create table tour (tour_number int primary key, tour_name varchar(100) not null, duration float not null, price float not null);

```
mysql> create table tour (tour_number int primary key, tour_name varchar(100) not null, duration float not null, price float not null);
Query OK, 0 rows affected (0.05 sec)

mysql> desc tour;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| tour_number    | int           | NO   | PRI | NULL    |       |
| tour_name      | varchar(100)  | NO   |     | NULL    |       |
| duration       | float         | NO   |     | NULL    |       |
| price          | float         | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

6) Port Table

create table Port (Port_name varchar(100), country varchar(100), no_of_docks int not null, port_manager varchar(100), primary key(port_name, country));

```
mysql> create table Port (Port_name varchar(100), country varchar(100), no_of_docks int not null, port_manager varchar(100), primary key(port_name, country));
Query OK, 0 rows affected (0.10 sec)

mysql> desc port;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Port_name      | varchar(100)  | NO   | PRI | NULL    |       |
| country        | varchar(100)  | NO   | PRI | NULL    |       |
| no_of_docks    | int           | NO   |     | NULL    |       |
| port_manager   | varchar(100)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

7)Visit Table

create table Visit (cruise_number int not null, port_name varchar(100) not null, country varchar(100) not null, arrival_date date not null, departure_date date not null, foreign key(cruise_number) references cruise(cruise_number), foreign key(port_name, country) references port(port_name, country));

```
mysql> create table Visit (cruise_number int not null, port_name varchar(100) not null, country varchar(100) not null, arrival_date date not null, departure_date date not null, foreign key(cruise_number) references cruise(cruise_number), foreign key(port_name, country) references port(port_name, country));
Query OK, 0 rows affected (0.26 sec)

mysql> desc Visit;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| cruise_number  | int           | NO   | MUL | NULL    |       |
| port_name      | varchar(100)  | NO   | MUL | NULL    |       |
| country        | varchar(100)  | NO   |     | NULL    |       |
| arrival_date   | date          | NO   |     | NULL    |       |
| departure_date | date          | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

8))Provision Table

create table Provision (Supplier_number int, product_number int, cruise_number int, quantity int not null, date_of_provision date not null, cost float not null,

-> primary key(Supplier_number, product_number, cruise_number),

-> 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> create table Provision (Supplier_number int, product_number int, cruise_number int, quantity int not null, date_of_provision date not null, cost float not null,
-> primary key(Supplier_number, product_number, cruise_number),
-> foreign key(Supplier_number) references Supplier(Supplier_number),
-> foreign key(product_number) references Product(product_number),
-> foreign key(cruise_number) references Cruise(cruise_number)
-> );
Query OK, 0 rows affected (0.09 sec)

mysql> desc Provision;
+-----+-----+-----+-----+-----+-----+
| Field          | Type   | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Supplier_number | int    | NO   | PRI | NULL    |       |
| product_number  | int    | NO   | PRI | NULL    |       |
| cruise_number   | int    | NO   | PRI | NULL    |       |
| quantity        | int    | NO   |     | NULL    |       |
| date_of_provision | date   | NO   |     | NULL    |       |
| cost            | float  | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

9) Passenger Table

create table Passenger (passenger_number int primary key, passenger_name varchar(100) not null, home_address varchar(200) not null, telephone varchar(11) not null, head_of_family int, foreign key (head_of_family) references passenger(passenger_number));

```
mysql> create table Passenger (passenger_number int primary key, passenger_name varchar(100)
not null, home_address varchar(200) not null, telephone varchar(11) not null, head_of_family
int, foreign key (head_of_family) references passenger(passenger_number));
Query OK, 0 rows affected (0.10 sec)

mysql> desc paassenger;
ERROR 1146 (42S02): Table 'happy_cruise_lines_db.paassenger' doesn't exist
mysql> desc passenger;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| passenger_number | int           | NO   | PRI | NULL    |       |
| passenger_name   | varchar(100)  | NO   |     | NULL    |       |
| home_address     | varchar(200)  | NO   |     | NULL    |       |
| telephone        | varchar(11)   | NO   |     | NULL    |       |
| head_of_family   | int           | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

10)Toured1 table

create table toured1 (passenger_number int, cruise_number int, cabin_number int not null, fare float not null, primary key(passenger_number, cruise_number), foreign key(passenger_number) references passenger(passenger_number), foreign key(cruise_number) references cruise(cruise_number));

```
mysql> create table toured1 (passenger_number int, cruise_number int, cabin_number int not nu
ll, fare float not null, primary key(passenger_number, cruise_number), foreign key(passenger_
number) references passenger(passenger_number), foreign key(cruise_number) references cruise(
cruise_number));
Query OK, 0 rows affected (0.08 sec)

mysql> desc toured1;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| passenger_number | int           | NO   | PRI | NULL    |       |
| cruise_number    | int           | NO   | PRI | NULL    |       |
| cabin_number     | int           | NO   |     | NULL    |       |
| fare             | float         | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

11)Toured2 table:

create table toured2 (passenger_number int, cruise_number int, tour_number int, date_of_tour date not null, primary key(passenger_number, cruise_number, tour_number), 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> create table toured2 (passenger_number int, cruise_number int, tour_number int, date_o  
f_tour date not null, primary key(passenger_number, cruise_number, tour_number), foreign key(  
passenger_number) references passenger(passenger_number), foreign key(cruise_number) referenc  
es cruise(cruise_number), foreign key(tour_number) references tour(tour_number));  
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> desc toured2;
```

Field	Type	Null	Key	Default	Extra
passenger_number	int	NO	PRI	NULL	
cruise_number	int	NO	PRI	NULL	
tour_number	int	NO	PRI	NULL	
date_of_tour	date	NO		NULL	

```
4 rows in set (0.00 sec)
```