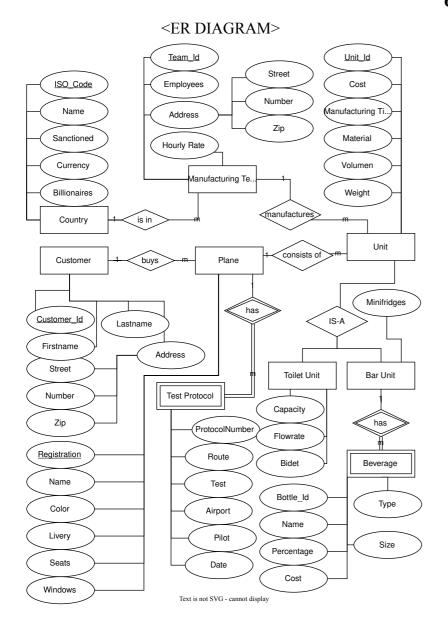
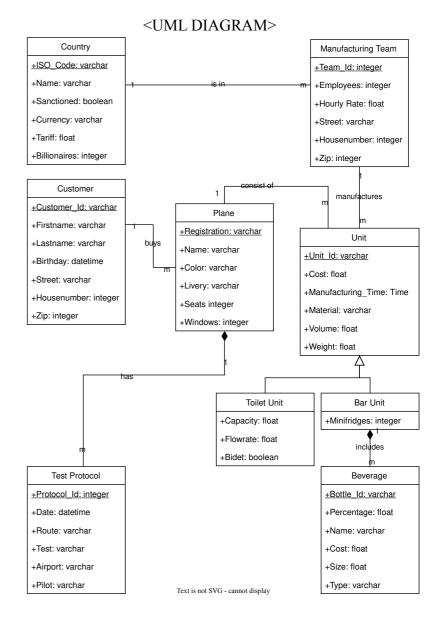
CHAPTER 1





<Chapter 2>

Customer(Customer_Id, Firstname, Lastname, Birthday, Street, Housenumber, Zip)

PK: Customer Id

Customers have a firstname and lastname, an address and a birthday. Customers are able to buy multiple planes.

Plane(Registration, Customer_Id, Name, Color, Livery, Seats, Windows)

PK: Registration

FK: Customer Id & Customer

Planes have a unique registration and are mapped to one customer. Customers set their planes name, color, livery and decide how many seats and windows the plane is supposed to have.

Country(ISO_Code, Name, Sanctioned, Currency, Tariff, Billionaires)

PK: ISO Code

Country is just a lookup table, Countries have a name and additionaly we save if the country is sanctioned, their tariffs, currency and amount of billionaires in the country, so we can tell our lobbyists which country are not to be sanctioned by politicians.

ManufacturingTeam(Team_Id, ISO_Code, Employees, Hourly_Rate, Street, Housenumber, Zip)

PK: Team Id

FK: ISO Code ◊ Country

Manufacturing Teams build the different units for the airplanes, they are based in different countries, also have an address and additionally the hourly rate and number of employees.

ToiletUnit(Unit_Id, Registration, Team_Id, Cost, Manufacturing_Time, Material, Volume, Weight, Capacity, Flowrate, Bidet)

PK: Unit Id

FK: Registration ◊ Plane

FK: Team Id ◊ ManufacturingTeam

Toilet units are part of an airplane, a plane can have multiple toilet units, they are highly customizable and vary in cost. A toilet unit is made by one manufacturing team for one plane.

BarUnit(Unit_Id, Registration, Team_Id, Cost, Manufacturing_Time, Material, Volume, Weight, Minifridges)

PK: Unit Id

FK: Registration ◊ Plane

FK: Team Id ◊ ManufacturingTeam

Bar units are similar to toilet units, except they have a number of minifridges installed.

Beverage(Unit_Id, Bottle_Id, Percentage, Name, Cost, Size, Type)

PK: Unit Id, Bottle Id

FK: Unit Id ◊ BarUnit

Beverages belong to one single bar and have to be destroyed in case the bar unit is discarded, because the plane building company has no license to store alcohol on their premises.

TestProtocol(Registration, Protocol Id, Date, Route, Test, Airport, Pilot)

PK: Registration, Protocol_Id

FK: Registration ◊ Pilot

Test protocols are created during each test flight of a specific plane. They include the date, pilot, route, airport and type of test. Test protocols have to be destroyed if a plane is discarded due to regulatory compliance.

<Chapter 3>

Customer

Customer_Id	Firstname	Lastname	Birthday	Street	Housenumber	Zip
1	Paul	Bort	1.1.1990	Wallensteinstraße	124	1200
2	Jack	Mill	2.7.1950	Schottenring	31	1010
3	Pill	Clinton	17.12.1956	Am Garten	2	60528
4	Geoff	Bezos	1.8.1968	Kote Avenue	5146	90210
5	Steve	Bossniak	5.2.1988	531st Street	3	94510

Plane

Registration	Customer_Id	Name	Color	Livery	Seats	Windows
DE156	2	GenericName	White	Eurowhite	50	30
XX512	3	Blaze Machine	White	Eurowhite	3	60
AT130	4	City Hopper	Green	Jelly Bean	46	54
HG503	4	Looking Down	Taupe	Cheatline	124	80
LA450	5	Humblebrag	Gold	Cheatline	200	100

Country

ISO_Code	Name	Sanctioned	Currency	Tariff	Billionaires
AT	Austria	False	EUR	50000	3
DE	Germany	False	EUR	1000	10
DK	Denmark	False	EUR	10	2
US	United States of America	False	USD	500000	120
KP	North Korea	True	KPW	0	1

Manufacturing Team

Team_Id	ISO_Code	Employees	Hourly Rate	Street	Housenumber	Zip
1	AT	50	1500	ABC-Gasse	1	1230
2	AT	100	3000	XYZ-Straße	5	1210
3	DE	30	1000	Industriestraße	50	63414
4	US	20	8000	Industrystreet	6481	98101
5	US	50	6000	Plane Boulevard	6447	98208

ToiletUnit

Unit_Id	Registration	Team_Id	Cost	Manufacturing_Time	Material	Volume	Weight	Capacity	Flowrate	Bidet
1	XX512	2	50000	02:50	Wood	6500	500	10	5	True
2	XX512	4	60000	03:45	Wood	8500	640	20	3	True
3	LA450	1	85000	04:15	Chrome	4500	758	26	6	False
4	LA450	3	134000	06:30	Plastic	9600	587	29	2	False
5	DE156	1	860000	72:00	Gold	7800	672	48	1	True

BarUnit

Unit_Id	Registration	Team_Id	Cost	Manufacturing_Time	Material	Volume	Weight	Minifridges
1	XX512	2	50000	02:50	Wood	6500	500	5
2	XX512	4	60000	03:45	Wood	8500	640	3
3	LA450	1	85000	04:15	Chrome	4500	758	5
4	LA450	3	134000	06:30	Plastic	9600	587	10
5	DE156	1	860000	72:00	Gold	7800	672	2

Beverage

Unit_id	Bottle_id	Percentage	Name	Cost	Size	Туре
1	a	40	Stolichnaya	20	1	Vodka
1	b	30	The Botanist	40	0.75	Gin
2	a	5	GenericBeer	50	0.33	Beer
2	b	5	GenericBeer	80	0.5	Beer
4	a	40	Bombay Sapphire	25	0.75	Gin

TestProtocol

1001100001								
Registration	Protocol_Id	Date	Route	Test	Airport	Pilot		
XX512	a	2.7.2021	Open Sea	High-G	FRA	Jack Mullvad		
XX512	b	1.1.2022	Alps	Instrument-Test	VIE	Jack Mullvad		
LA450	a	17.12.2021	Open Sea	High-G	FRA	Jack Mullvad		
LA450	b	1.3.2022	Alps	Instrument-Test	VIE	Peter Donnerballer		
DE156	a	5.2.2022	Open Sea	Barrelroll-Test	VIE	Peter Donnerballer		