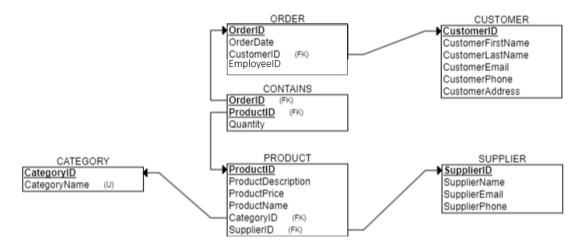
## **Project phase 3**

Jens Henttinen, Ayşe Pekdiker, Ojaswi Tyagi, Venla Komu, Darren Chow, Onni Kiviluoto

#### Source 1

We used the database from phases 1 & 2 for Source 1. We added the EmployeeID column into the Order table and added the corresponding data into each row. All of the data is included in the Access database, but we also provided screenshots of each in this file.

#### Schema:



#### Data:

#### Order

OrderID -	OrderDate +	CustomerID -	EmployeeID -
1	01/08/2023	6	4
2	03/08/2023	4	3
3	05/08/2023	2	1
4	07/08/2023	1	2
5	18/08/2023	3	5
6	24/08/2023	5	1
7	04/08/2023	2	1
8	02/08/2023	6	4
	1 2 3 4 5	01/08/2023 2 03/08/2023 3 05/08/2023 4 07/08/2023 5 18/08/2023 6 24/08/2023 7 04/08/2023	01/08/2023 66 2 03/08/2023 4 3 05/08/2023 2 4 07/08/2023 1 5 18/08/2023 3 6 24/08/2023 5

### Customer

Custor	merID CustomerFName	- CustomerLName -	CustomerEmail -	CustomerPhone -	CustomerAddress	*
	1 Darren	Chow	darren.chow@examp	+358 40 111 1111	Otakaari 18, 02510, ESPOO	
	2 Ojaswi	Tyagi	ojaswi.tyagi@examp	+358 40 111 1112	Otaroad 69, 00280, ESPOO	
	3 Onni	Kiviluoto	onni.kiviluoto@exam	+358 40 111 1113	Otabeach 420, 00420, TUUSULA	
	4 Venla	Komu	venla.komu@example	+358 40 111 1114	Otaranta 123, 00001, HELSINKI	
	5 Ayse	Pekdiker	ayse.pekdiker@exam	+358 40 111 1115	Jameraroad 46, 83134, ESPOO	
	6 Jens	Henttinen	jens.henttinen@exar	+358 40 111 1116	Monkhillroad 123, 69696, HELSINKI	

# Contains

Quantity -	OrderID -	ProductID -
.4	1	2
2	1	6
8	1	2 6 7 2 7
8	2	2
1	2	
48	3	1
2	3	2
5	4	3
2	4	15
7	5	11
1	5	14
1	6	1
1	7	10
2	7	13
20	8	5 9
14	8	9

# Product

ProductID - Product	Pric - Produc	tName -	ProductDescription -	CategoryID -	SupplierID	*
1	1.09 Beer		Alcoholic malt bevera	<u> </u>	5	1
2	1.89 Cola		Carbonated beverage		5	4
3	0.89 Skimmed	Milk	Fat free white bevera	a <u>.</u> 1	1	1
4	1.02 Cream		Creamy goodness	1	1	5
5	0.3 Carrot		Carb bomb	2	2	3
6	0.56 Onion		Layered root	2	2	1
7	6.89 Eggs		12-pack	3	3	2
8	4.09 Chicken	Nuggets	Orange slime nuggets	3	3	3
9	0.99 Ice		Frozen water	4	4	4
10	1.76 Beans		With tomato sauce	6	5	4
11	0.72 Spaghett	i	Without eggs	7	7	2
12	2.09 Cookies		Chocolate chip cookie	25	7	2
13	2 Croissant		French goodness	3	3	5
14	5.45 Frozen sl	nimps	Sea food flavoured	4	4	2
15	1.89 Potato c	hips	Salt & vinegar	7	7	3

# Category

0 ,	
CategoryID ▽	CategoryName ▽
1	Dairy
2	Fresh produce
3	Poultry
4	Frozen foods
5	Beverages
6	Canned foods
7	Dry foods
8	Bakery products

# Supplier

	SupplierName -	SupplierEmail -	SupplierPhone -
1	Pirkka	customerservice@pirkkastore.	+358 74 123 1123
2	Xtra	customerservice@xtra.com	+48 74 123 1124
3	Rainbow	s-kauppa@rainbow.com	+358 40 113 1891
4	EuroShopper	ES@euroshopper.com	+44 56 123 1128
5	Arla	milk@arla.com	+45 66 666 6666

#### Source 2

For source 2, we created a table of employee information. EmployeeID combines source 1 to source 2. This would be a table for the HR function, which will be kept separate from the sales and procurement database.

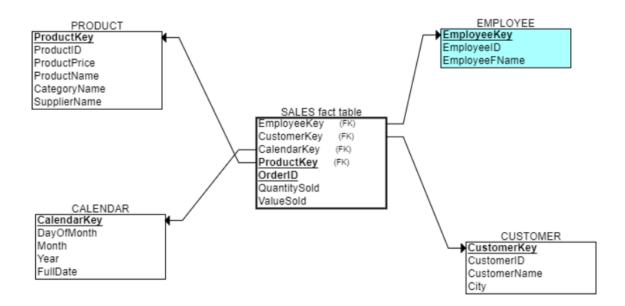
#### Data:

EmployeeID ▽	Address ▽	PhoneNumber ▽	EmployeeName 🔻
1	Otakaari 2, 02123 ESPOO	+358 44 583 5599	Jouko
2	Otarinne 4, 02459 ESPOO	+358 45 223 4990	Touko
3	Otaranta 123, 02201 ESPOO	+358 44 123 2244	Helga
4	Tietokantojentie 99, 02450 HELSINKI	+258 44 131 2589	Taru
5	Toukopoukontie 1, 00330 HELSINKI	+358 40 790 1411	Davide

#### **Star Schema**

ProductKey and OrderID make each row in the sales fact table unique. Sales can be analyzed based on employee, product, date and customer.

#### Schema:



# Product dimension table:

ProductKey -	ProductID →	ProductPric -	ProductNan →	CategoryName -	SupplierNar +
1	1	1.09	Beer	Beverages	Pirkka
2	2	1.89	Cola	Beverages	EuroShopper
3	3	0.89	Skimmed Milk	Dairy	Pirkka
4	4	1.02	Cream	Dairy	Arla
5	5	0.3	Carrot	Fresh produce	Rainbow
6	6	0.56	Onion	Fresh produce	Pirkka
7	7	6.89	Eggs	Poultry	Xtra
8	8	4.09	Chicken Nugge	Poultry	Rainbow
9	9	0.99	Ice	Frozen foods	EuroShopper
10	10	1.76	Beans	Canned foods	EuroShopper
11	11	0.72	Spaghetti	Dry foods	Xtra
12	12	2.09	Cookies	Dry foods	Xtra
13	13	2	Croissant	Bakery products	Arla
14	14	5.45	Frozen shimps	Frozen foods	Xtra
15	15	1.89	Potato chips	Dry foods	Rainbow

# Employee dimension table:

• •		
EmployeeKey -	EmployeeID -	EmployeeName -
1	1	Jouko
2	2	Touko
3	3	Helga
4	4	Taru
5	5	Davide

## Calendar dimension table:

CalendarKey ▽	Year ▽	DayOfMonth ▽	Month ▽	FullDate ▽
1	2023	1	8	1.8.2023
2	2023	3	8	3.8.2023
3	2023	5	8	5.8.2023
4	2023	7	8	7.8.2023
5	2023	18	8	18.8.2023
6	2023	24	8	24.8.2023
7	2023	4	8	4.8.2023
8	2023	8	8	2.8.2023

## Customer dimension table:

CustomerKey ▽	CustomerID ▽	CustomerName ▽	City ▽
1	1	Darren Chow	ESPOO
2	2	Ojaswi Tyagi	ESPOO
3	3	Onni Kiviluoto	TUUSULA
4	4	Venla Komu	HELSINKI
5	5	Ayse Pekdiker	ESPOO
6	6	Jens Henttinen	HELSINKI

## Sales fact table:

EmployeeKey $\neg$	ProductKey 🔻	OrderlD ▽	CustomerKey ▽	CalendarKey 🔻	QuantitySold 🗸	ValueSold ▽
	1 1	3	2	3	48	52,32
	1 1	6	5	6	1	1,09
	4 2	1	6	1	4	7,56
	3 2	2	4	2	8	15,12
	1 2	3	2	3	2	3,78
	2 3	4	1	4	5	4,45
	4 5	8	6	8	20	6
	4 6	1	6	1	2	1,12
	4 7	1	6	1	8	55,12
	3 7	2	4	2	1	6,89
	4 9	8	6	8	14	13,86
	1 10	7	2	7	1	1,76
	5 11	5	3	5	7	5,04
	1 13	7	2	7	2	4
	5 14	5	3	5	1	5,45
	2 15	4	1	4	2	3,78

Full database in the attached Access database.

Dimension tables are named "Tablename" dimension, and the fact table is named SALES fact.