

# Exercise 2.0 – Populating the Newly-Created Dimensional Schema

## Exercise 2.1 – Loading the Dimension Tables

### dim\_customers

	customer_key	company	last_name	first_name	job_title	business_phone	fax_number	address	city	state_provin...	zip_postal_co...	country_regi...
► 1		Company A	Bedece	Anna	Owner	(123)555-0100	(123)555-0101	123 1st Street	Seattle	WA	99999	USA
2		Company B	Gratacos Solsona	Antonio	Owner	(123)555-0100	(123)555-0101	123 2nd Street	Boston	MA	99999	USA
3		Company C	Axen	Thomas	Purchasing Representative	(123)555-0100	(123)555-0101	123 3rd Street	Los Angeles	CA	99999	USA
4		Company D	Lee	Christina	Purchasing Manager	(123)555-0100	(123)555-0101	123 4th Street	New York	NY	99999	USA
5		Company E	O'Donnell	Martin	Owner	(123)555-0100	(123)555-0101	123 5th Street	Minneapolis	MN	99999	USA
6		Company F	Pérez-Olaeta	Francisco	Purchasing Manager	(123)555-0100	(123)555-0101	123 6th Street	Milwaukee	WI	99999	USA
7		Company G	Xie	Ming-Yang	Owner	(123)555-0100	(123)555-0101	123 7th Street	Boise	ID	99999	USA
8		Company H	Andersen	Elizabeth	Purchasing Representative	(123)555-0100	(123)555-0101	123 8th Street	Portland	OR	99999	USA
9		Company I	Mortensen	Sven	Purchasing Manager	(123)555-0100	(123)555-0101	123 9th Street	Salt Lake City	UT	99999	USA
10		Company J	Wacker	Roland	Purchasing Manager	(123)555-0100	(123)555-0101	123 10th Street	Chicago	IL	99999	USA
11		Company K	Krschne	Peter	Purchasing Manager	(123)555-0100	(123)555-0101	123 11th Street	Miami	FL	99999	USA
12		Company L	Edwards	John	Purchasing Manager	(123)555-0100	(123)555-0101	123 12th Street	Las Vegas	NV	99999	USA
13		Company M	Ludick	Andre	Purchasing Representative	(123)555-0100	(123)555-0101	456 13th Street	Memphis	TN	99999	USA
14		Company N	Grilo	Carlos	Purchasing Representative	(123)555-0100	(123)555-0101	456 14th Street	Denver	CO	99999	USA
15		Company O	Kupkova	Helena	Purchasing Manager	(123)555-0100	(123)555-0101	456 15th Street	Honolulu	HI	99999	USA
16		Company P	Goldschmidt	Daniel	Purchasing Representative	(123)555-0100	(123)555-0101	456 16th Street	San Francisco	CA	99999	USA
17		Company Q	Bagel	Jean Phil...	Owner	(123)555-0100	(123)555-0101	456 17th Street	Seattle	WA	99999	USA
18		Company R	Autier Miconi	Catherine	Purchasing Representative	(123)555-0100	(123)555-0101	456 18th Street	Boston	MA	99999	USA
19		Company S	Eggerer	Alexander	Accounting Assistant	(123)555-0100	(123)555-0101	789 19th Street	Los Angeles	CA	99999	USA
20		Company T	Li	George	Purchasing Manager	(123)555-0100	(123)555-0101	789 20th Street	New York	NY	99999	USA
21		Company U	Tham	Bernard	Accounting Manager	(123)555-0100	(123)555-0101	789 21th Street	Minneapolis	MN	99999	USA
22		Company V	Ramos	Luciana	Purchasing Assistant	(123)555-0100	(123)555-0101	789 22th Street	Milwaukee	WI	99999	USA
23		Company W	Entin	Michael	Purchasing Manager	(123)555-0100	(123)555-0101	789 23th Street	Portland	OR	99999	USA
24		Company X	Hasselberg	Jonas	Owner	(123)555-0100	(123)555-0101	789 24th Street	Salt Lake City	UT	99999	USA
25		Company Y	Rodman	John	Purchasing Manager	(123)555-0100	(123)555-0101	789 25th Street	Chicago	IL	99999	USA

### dim\_employees

	employee_key	company	last_name	first_name	email_address	job_title	business_phone	home_phone	fax_number	address	city	state_provin...	zip_postal_co...	country_regi...	web_page
► 1		Northwind Traders	Freehafer	Nancy	nancy@northwindtraders.com	Sales Representative	(123)555-0100	(123)555-0102	(123)555-0103	123 1st Avenue	Seattle	WA	99999	USA	#http://northwindtrac
2		Northwind Traders	Cencini	Andrew	andrew@northwindtraders.com	Vice President, Sales	(123)555-0100	(123)555-0102	(123)555-0103	123 2nd Avenue	Bellevue	WA	99999	USA	http://northwindtrade
3		Northwind Traders	Kotas	Jan	jan@northwindtraders.com	Sales Representative	(123)555-0100	(123)555-0102	(123)555-0103	123 3rd Avenue	Redmond	WA	99999	USA	http://northwindtrade
4		Northwind Traders	Sergienko	Mariya	mariya@northwindtraders.com	Sales Representative	(123)555-0100	(123)555-0102	(123)555-0103	123 4th Avenue	Kirkland	WA	99999	USA	http://northwindtrade
5		Northwind Traders	Thorpe	Steven	steven@northwindtraders.com	Sales Manager	(123)555-0100	(123)555-0102	(123)555-0103	123 5th Avenue	Seattle	WA	99999	USA	http://northwindtrade
6		Northwind Traders	Neipper	Michael	michael@northwindtraders.com	Sales Representative	(123)555-0100	(123)555-0102	(123)555-0103	123 6th Avenue	Redmond	WA	99999	USA	http://northwindtrade
7		Northwind Traders	Zare	Robert	robert@northwindtraders.com	Sales Representative	(123)555-0100	(123)555-0102	(123)555-0103	123 7th Avenue	Seattle	WA	99999	USA	http://northwindtrade
8		Northwind Traders	Giussani	Laura	laura@northwindtraders.com	Sales Coordinator	(123)555-0100	(123)555-0102	(123)555-0103	123 8th Avenue	Redmond	WA	99999	USA	http://northwindtrade
9		Northwind Traders	Heilung-Larsen	Anne	anne@northwindtraders.com	Sales Representative	(123)555-0100	(123)555-0102	(123)555-0103	123 9th Avenue	Seattle	WA	99999	USA	http://northwindtrade
	NULL		NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

### dim\_products

	product_k...	product_co...	product_name	standard_co...	list_price	reorder_level	target_lev...	quantity_per_unit	discontin...	minimum_reorder_quan...	category
► 1		NWTB-1	Northwind Traders Chai	13.5000	18.0000	10	40	10 boxes x 20 bags	0	10	Beverages
3		NWTCO-3	Northwind Traders Syrup	7.5000	10.0000	25	100	12 - 550 ml bottles	0	25	Condiments
4		NWTCO-4	Northwind Traders Cajun Seasoning	16.5000	22.0000	10	40	48 - 6 oz jars	0	10	Condiments
5		NWTO-5	Northwind Traders Olive Oil	16.0125	21.3500	10	40	36 boxes	0	10	Oil
6		NWTJP-6	Northwind Traders Boysenberry Spread	18.7500	25.0000	25	100	12 - 8 oz jars	0	25	Jams, Preserves
7		NWTDNF-7	Northwind Traders Dried Pears	22.5000	30.0000	10	40	12 - 1 lb pkgs.	0	10	Dried Fruit & Nuts
8		NWTS-8	Northwind Traders Curry Sauce	30.0000	40.0000	10	40	12 - 12 oz jars	0	10	Sauces
14		NWTDNF-14	Northwind Traders Walnuts	17.4375	23.2500	10	40	40 - 100 g pkgs.	0	10	Dried Fruit & Nuts
17		NWTCFV-17	Northwind Traders Fruit Cocktail	29.2500	39.0000	10	40	15.25 OZ	0	10	Canned Fruit & Vegetables
19		NWTBGM-19	Northwind Traders Chocolate Biscuits Mix	6.9000	9.2000	5	20	10 boxes x 12 pieces	0	5	Baked Goods & Mixes
20		NWTPJ-6	Northwind Traders Marmalade	60.7500	81.0000	10	40	30 gift boxes	0	10	Jams, Preserves
21		NWTBGM-21	Northwind Traders Scones	7.5000	10.0000	5	20	24 pkgs. x 4 pieces	0	5	Baked Goods & Mixes
34		NWTS-34	Northwind Traders Beer	10.5000	14.0000	15	60	24 - 12 oz bottles	0	15	Beverages
40		NWTCM-40	Northwind Traders Crab Meat	13.8000	18.4000	30	120	24 - 4 oz tins	0	30	Canned Meat
41		NWTSO-41	Northwind Traders Clam Chowder	7.2375	9.6500	10	40	12 - 12 oz cans	0	10	Soups
43		NWTS-43	Northwind Traders Coffee	34.5000	46.0000	25	100	16 - 500 g tins	0	25	Beverages
48		NWTS-48	Northwind Traders Chocolate	9.5625	12.7500	25	100	10 pkgs	0	25	Candy
51		NWTDNF-51	Northwind Traders Dried Apples	39.7500	53.0000	10	40	50 - 300 g pkgs.	0	10	Dried Fruit & Nuts
52		NWTS-52	Northwind Traders Long Grain Rice	5.2500	7.0000	25	100	16 - 2 kg boxes	0	25	Grains
56		NWTP-56	Northwind Traders Gnocchi	28.5000	38.0000	30	120	24 - 250 g pkgs.	0	30	Pasta
57		NWTP-57	Northwind Traders Ravioli	14.6250	19.5000	20	80	24 - 250 g pkgs.	0	20	Pasta
65		NWTS-65	Northwind Traders Hot Pepper Sauce	15.7875	21.0500	10	40	32 - 8 oz bottles	0	10	Sauces
66		NWTS-66	Northwind Traders Tomato Sauce	12.7500	17.0000	20	80	24 - 8 oz jars	0	20	Sauces
72		NWTD-72	Northwind Traders Mozzarella	26.1000	34.8000	10	40	24 - 200 g pkgs.	0	10	Dairy products

## dim\_shippers

	shipper_key	company	address	city	state_provin...	zip_postal_co...	country_regi...
►	1	Shipping Company A	123 Any Street	Memphis	TN	99999	USA
	2	Shipping Company B	123 Any Street	Memphis	TN	99999	USA
	3	Shipping Company C	123 Any Street	Memphis	TN	99999	USA
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

## Exercise 2.2 – Loading the Orders Fact Table

### fact\_orders

	order_id	employee_id	customer_id	product_...	shipper_id	ship_name	ship_address	ship_city	ship_state_provin...	ship_zip_postal_co...	ship_country_regi...	quantity	order_date	shipped_date	unit
►	30	9	27	34	2	Karen Toh	789 27th Street	Las Vegas	NV	99999	USA	100	2006-01-15	2006-01-22	14
	30	9	27	80	2	Karen Toh	789 27th Street	Las Vegas	NV	99999	USA	30	2006-01-15	2006-01-22	4
	31	3	4	7	1	Christina Lee	123 4th Street	New York	NY	99999	USA	10	2006-01-20	2006-01-22	30
	31	3	4	51	1	Christina Lee	123 4th Street	New York	NY	99999	USA	10	2006-01-20	2006-01-22	53
	31	3	4	80	1	Christina Lee	123 4th Street	New York	NY	99999	USA	10	2006-01-20	2006-01-22	4
	32	4	12	1	2	John Edwards	123 12th Street	Las Vegas	NV	99999	USA	15	2006-01-22	2006-01-22	18
	32	4	12	43	2	John Edwards	123 12th Street	Las Vegas	NV	99999	USA	20	2006-01-22	2006-01-22	46
	33	6	8	19	3	Elizabeth Andersen	123 8th Street	Portland	OR	99999	USA	30	2006-01-30	2006-01-31	9
	34	9	4	19	3	Christina Lee	123 4th Street	New York	NY	99999	USA	20	2006-02-06	2006-02-07	9
	35	3	29	48	2	Soo Jung Lee	789 29th Street	Denver	CO	99999	USA	10	2006-02-10	2006-02-12	13
	36	4	3	41	2	Thomas Axen	123 3rd Street	Los Ange...	CA	99999	USA	200	2006-02-23	2006-02-25	10
	37	8	6	8	2	Francisco Pérez-...	123 6th Street	Milwaukee	WI	99999	USA	17	2006-03-06	2006-03-09	40
	38	9	28	43	3	Amritansh Raghav	789 28th Street	Memphis	TN	99999	USA	300	2006-03-10	2006-03-11	46
	39	3	8	48	3	Elizabeth Andersen	123 8th Street	Portland	OR	99999	USA	100	2006-03-22	2006-03-24	13
	40	4	10	81	2	Roland Wacker	123 10th Street	Chicago	IL	99999	USA	200	2006-03-24	2006-03-24	3
	41	1	7	43	NULL	Ming-Yang Xie	123 7th Street	Boise	ID	99999	USA	300	2006-03-24	NULL	46
	42	1	10	6	1	Roland Wacker	123 10th Street	Chicago	IL	99999	USA	10	2006-03-24	2006-04-07	25
	42	1	10	4	1	Roland Wacker	123 10th Street	Chicago	IL	99999	USA	10	2006-03-24	2006-04-07	22
	42	1	10	19	1	Roland Wacker	123 10th Street	Chicago	IL	99999	USA	10	2006-03-24	2006-04-07	9
	43	1	11	80	3	Peter Krschne	123 11th Street	Miami	FL	99999	USA	20	2006-03-24	NULL	4
	43	1	11	81	3	Peter Krschne	123 11th Street	Miami	FL	99999	USA	50	2006-03-24	NULL	3
	44	1	1	1	NULL	Anna Bedecs	123 1st Street	Seattle	WA	99999	USA	25	2006-03-24	NULL	18
	44	1	1	43	NULL	Anna Bedecs	123 1st Street	Seattle	WA	99999	USA	25	2006-03-24	NULL	46
	44	1	1	81	NULL	Anna Bedecs	123 1st Street	Seattle	WA	99999	USA	25	2006-03-24	NULL	3

## Exercise 3.0 – Creating a Dimensional Report

```
SELECT dc.last_name, sum(fo.quantity), sum(fo.unit_price)
```

```
FROM northwind_dw.dim_customers as dc
```

```
INNER JOIN northwind_dw.fact_orders as fo on dc.customer_key = fo.customer_id
```

```
GROUP BY dc.last_name;
```

	last_name	sum(fo.quanti...	sum(fo.unit_pri...
►	Toh	130	18
	Lee	277	288
	Edwards	35	64
	Andersen	260	119
	Axen	253	101
	Pérez-Olaeta	427	163
	Raghav	405	120
	Wacker	265	73
	Xie	300	46
	Krschne	90	47
	Bedecs	115	85
	Mortensen	160	65
	Rodman	50	32
	Liu	175	74