

Un-normalized example of Monthly Sales Staff Customer Listing Report

Staff id	Sales Person	Sales Office	Office Manager	Office Phone	Cust 1 Name	Cust 1 City	Cust 1 Postal	Cust 2 Name	Cust 2 City	Cust 2 Postal	Cust 3 Name	Cust 3 City	Cust 3 Postal
102	Vicky Nasi	Sarnia	Brenn Soper	541-466-7937	MyWorks	Sarnia	N7S	Babbleset	London	N6A	Mudo	Toronto	M3B
105	Dawn Bestwick	London	Irwin Artz	717-340-4669	Yotz	Toronto	M3B	Bubblebox	Toronto	M3B	Latz	London	N6M
101	Elaine Iston	Toronto	Hill Miner	610-982-6636	Livetube	London	N6A	Flipbug	Sarnia	N7S	Meejo	Sarnia	N7T
108	Patrick Gooley	London	Irwin Artz	717-340-4669	Rhybox	Sarnia	N7T	Gigashots	Sarnia	N7T	Gabspot	Sarnia	N7S
106	Lynda McKeady	Toronto	Hill Miner	610-982-6636	Lazz	Toronto	M1B	Zoomdog	Toronto	M1B	Livepath	London	N6A
103	Gertrud Lainton	Sarnia	Brenn Soper	541-466-7937	Flashspan	London	N6A	Jaloo	London	N6M	Bridgeview	Sarnia	N7T
107	Nikolaos Velez	London	Irwin Artz	717-340-4669	Devcast	London	N6M	Edgeify	London	N6A	Fivebridge	Toronto	M1B
104	Jereme Willis	Toronto	Hill Miner	610-982-6636	Zoombeat	Toronto	M3B	Mybuzz	Toronto	M3B	Jazzy	London	N6M
110	Mort Cawdery	Sarnia	Brenn Soper	541-466-7937	Bluejam	Sarnia	N7S	Layo	Sarnia	N7T	Feedmix	London	N6A
111	Budd Shrimpling	Sarnia	Brenn Soper	541-466-7937	JumpXS	Sarnia	N7T	Zoomzone	Sarnia	N7S	Linktype	Toronto	M3B
112	Lory Placide	London	Irwin Artz	717-340-4669	Edgewire	Toronto	M1B	Snaptags	Toronto	M1B	Kare	Sarnia	N7S
109	Abner Chandler	Toronto	Hill Miner	610-982-6636	Yambee	London	N6M	Yodoo	London	N6A	Yata	Sarnia	N7S

1: First Formational Form (1NF)

Sales

<u>Staff id</u>	Sales Person	Sales Office	Office Manager	Office Phone	<u>Customer Name</u>	City	Postal
102	Vicky Nasi	Sarnia	Brenn Soper	541-466-7937	MyWorks	Sarnia	N7S
102	Vicky Nasi	Sarnia	Brenn Soper	541-466-7937	Babbleset	London	N6A
102	Vicky Nasi	Sarnia	Brenn Soper	541-466-7937	Mudo	Toronto	M3B
105	Dawn Bestwick	London	Irwin Artz	717-340-4669	Yotz	Toronto	M3B
105	Dawn Bestwick	London	Irwin Artz	717-340-4669	Bubblebox	Toronto	M3B
105	Dawn Bestwick	London	Irwin Artz	717-340-4669	Latz	London	N6M
101	Elaine Iston	Toronto	Hill Miner	610-982-6636	Livetube	London	N6A
101	Elaine Iston	Toronto	Hill Miner	610-982-6636	Flipbug	Sarnia	N7S
101	Elaine Iston	Toronto	Hill Miner	610-982-6636	Meejo	Sarnia	N7T
108	Patrick Gooley	London	Irwin Artz	717-340-4669	Rhybox	Sarnia	N7T
108	Patrick Gooley	London	Irwin Artz	717-340-4669	Gigashots	Sarnia	N7T
108	Patrick Gooley	London	Irwin Artz	717-340-4669	Gabspot	Sarnia	N7S
106	Lynda McKeady	Toronto	Hill Miner	610-982-6636	Lazz	Toronto	M1B
106	Lynda McKeady	Toronto	Hill Miner	610-982-6636	Zoomdog	Toronto	M1B
106	Lynda McKeady	Toronto	Hill Miner	610-982-6636	Livepath	London	N6A
103	Gertrud Lainton	Sarnia	Brenn Soper	541-466-7937	Flashspan	London	N6A
103	Gertrud Lainton	Sarnia	Brenn Soper	541-466-7937	Jaloo	London	N6M
103	Gertrud Lainton	Sarnia	Brenn Soper	541-466-7937	Bridgeview	Sarnia	N7T
107	Nikolaos Velez	London	Irwin Artz	717-340-4669	Devcast	London	N6M
107	Nikolaos Velez	London	Irwin Artz	717-340-4669	Edgeify	London	N6A
107	Nikolaos Velez	London	Irwin Artz	717-340-4669	Fivebridge	Toronto	M1B
104	Jereme Willis	Toronto	Hill Miner	610-982-6636	Zoombeat	Toronto	M3B
104	Jereme Willis	Toronto	Hill Miner	610-982-6636	Mybuzz	Toronto	M3B

104	Jereme Willis	Toronto	Hill Miner	610-982-6636	Jazzy	London	N6M
110	Mort Cawdery	Sarnia	Brenn Soper	541-466-7937	Bluejam	Sarnia	N7S
110	Mort Cawdery	Sarnia	Brenn Soper	541-466-7937	Layo	Sarnia	N7T
110	Mort Cawdery	Sarnia	Brenn Soper	541-466-7937	Feedmix	London	N6A
111	Budd Shrimpling	Sarnia	Brenn Soper	541-466-7937	JumpXS	Sarnia	N7T
111	Budd Shrimpling	Sarnia	Brenn Soper	541-466-7937	Zoomzone	Sarnia	N7S
111	Budd Shrimpling	Sarnia	Brenn Soper	541-466-7937	Linktype	Toronto	M3B
112	Lory Placide	London	Irwin Artz	717-340-4669	Edgewire	Toronto	M1B
112	Lory Placide	London	Irwin Artz	717-340-4669	Snaptags	Toronto	M1B
112	Lory Placide	London	Irwin Artz	717-340-4669	Kare	Sarnia	N7S
109	Abner Chandler	Toronto	Hill Miner	610-982-6636	Yambee	London	N6M
109	Abner Chandler	Toronto	Hill Miner	610-982-6636	Yodoo	London	N6A
109	Abner Chandler	Toronto	Hill Miner	610-982-6636	Yata	Sarnia	N7S

SALES (Staff_id, sales_manager, office_phone, customer_name, city, postal)

2: Second Formational Form (2NF)

Sales

<u>Staff ID</u>	Sales Person	Sales Office	Office Manager	Office Phone
102	Vicky Nasi	Sarnia	Brenn Soper	541-466-7937
105	Dawn Bestwick	London	Irwin Artz	717-340-4669
101	Elaine Iston	Toronto	Hill Miner	610-982-6636
108	Patrick Gooley	London	Irwin Artz	717-340-4669
106	Lynda McKeady	Toronto	Hill Miner	610-982-6636
103	Gertrud Lainton	Sarnia	Brenn Soper	541-466-7937
107	Nikolaos Velez	London	Irwin Artz	717-340-4669
104	Jereme Willis	Toronto	Hill Miner	610-982-6636
110	Mort Cawdery	Sarnia	Brenn Soper	541-466-7937
111	Budd Shrimpling	Sarnia	Brenn Soper	541-466-7937
112	Lory Placide	London	Irwin Artz	717-340-4669
109	Abner Chandler	Toronto	Hill Miner	610-982-6636

SALES (Staff_id, sales_person, sales_office, office_manager, office_phone)

Customer

<u>Customer ID</u>	<u>Customer Name</u>	City	Postal
102	MyWorks	Sarnia	N7S
103	Babbleset	London	N6A
104	Mudo	Toronto	M3B
105	Yotz	Toronto	M3B
106	Bubblebox	Toronto	M3B
107	Latz	London	N6M
108	Livetube	London	N6A
109	Flipbug	Sarnia	N7S
110	Meejo	Sarnia	N7T
111	Rhybox	Sarnia	N7T
112	Gigashots	Sarnia	N7T
113	Gabspot	Sarnia	N7S
114	Lazz	Toronto	M1B
115	Zoomdog	Toronto	M1B
116	Livepath	London	N6A
117	Flashspan	London	N6A
118	Jaloo	London	N6M
119	Bridgeview	Sarnia	N7T
120	Devcast	London	N6M
121	Edgeify	London	N6A

122	Fivebridge	Toronto	M1B
123	Zoombeat	Toronto	M3B
124	Mybuzz	Toronto	M3B
125	Jazzy	London	N6M
126	Bluejam	Sarnia	N7S
127	Layo	Sarnia	N7T
128	Feedmix	London	N6A
129	JumpXS	Sarnia	N7T
130	Zoomzone	Sarnia	N7S
131	Linktype	Toronto	M3B
132	Edgewire	Toronto	M1B
133	Snaptags	Toronto	M1B
134	Kare	Sarnia	N7S
135	Yambee	London	N6M
136	Yoodoo	London	N6A
137	Yata	Sarnia	N7S

CUSTOMER (customer_id, customer_name, city,_postal)

Service

<u>Staff id</u>	<u>Customer ID</u>
102	102
102	103
102	104
105	105

105	106
105	107
101	108
101	109
101	110
108	111
108	112
108	113
106	114
106	115
106	116
103	117
103	118
103	119
107	120
107	121
107	122
104	123
104	124
104	125
110	126
110	127
110	128
111	129
111	130
111	131
112	132

112	133
112	134
109	135
109	136
109	137

SERVICE (customer id, staff id)

3: Third Formational Form (3NF)

Sales

<u>Staff ID</u>	Sales Person	<i>Sales Office</i>
102	Vicky Nasi	Sarnia
105	Dawn Bestwick	London
101	Elaine Iston	Toronto
108	Patrick Gooley	London

106	Lynda McKeady	Toronto
103	Gertrud Lainton	Sarnia
107	Nikolaos Velez	London
104	Jereme Willis	Toronto
110	Mort Cawdery	Sarnia
111	Budd Shrimpling	Sarnia
112	Lory Placide	London
109	Abner Chandler	Toronto

SALES (staff_id, sales_diagram, sales_office)

Manager

<u>Sales Office</u>	Office Manager	Office Phone
Sarnia	Brenn Soper	541-466-7937
London	Irwin Artz	717-340-4669
Toronto	Hill Miner	610-982-6636
London	Irwin Artz	717-340-4669
Toronto	Hill Miner	610-982-6636

Sarnia	Brenn Soper	541-466-7937
London	Irwin Artz	717-340-4669
Toronto	Hill Miner	610-982-6636
Sarnia	Brenn Soper	541-466-7937
Sarnia	Brenn Soper	541-466-7937
London	Irwin Artz	717-340-4669
Toronto	Hill Miner	610-982-6636

MANAGER (sales_office, office_manager, office_phone)

Service

<u>Staff id</u>	<u>Customer ID</u>
102	102
102	103
102	104
105	105
105	106
105	107
101	108
101	109
101	110
108	111
108	112
108	113

106	114
106	115
106	116
103	117
103	118
103	119
107	120
107	121
107	122
104	123
104	124
104	125
110	126
110	127
110	128
111	129
111	130
111	131
112	132
112	133
112	134
109	135
109	136
109	137

SERVICE (customer_id, staff_id)

Customer

<u>Customer ID</u>	<u>Customer Name</u>	City	Postal
102	MyWorks	Sarnia	N7S
103	Babbleset	London	N6A
104	Mudo	Toronto	M3B
105	Yotz	Toronto	M3B
106	Bubblebox	Toronto	M3B
107	Latz	London	N6M
108	Livetube	London	N6A
109	Flipbug	Sarnia	N7S
110	Meejo	Sarnia	N7T
111	Rhybox	Sarnia	N7T
112	Gigashots	Sarnia	N7T
113	Gabspot	Sarnia	N7S
114	Lazz	Toronto	M1B
115	Zoomdog	Toronto	M1B
116	Livepath	London	N6A
117	Flashspan	London	N6A
118	Jaloo	London	N6M
119	Bridgeview	Sarnia	N7T
120	Devcast	London	N6M
121	Edgeify	London	N6A
122	Fivebridge	Toronto	M1B
123	Zoombeat	Toronto	M3B

124	Mybuzz	Toronto	M3B
125	Jazzy	London	N6M
126	Bluejam	Sarnia	N7S
127	Layo	Sarnia	N7T
128	Feedmix	London	N6A
129	JumpXS	Sarnia	N7T
130	Zoomzone	Sarnia	N7S
131	Linktype	Toronto	M3B
132	Edgewire	Toronto	M1B
133	Snaptags	Toronto	M1B
134	Kare	Sarnia	N7S
135	Yambee	London	N6M
136	Yoodoo	London	N6A
137	Yata	Sarnia	N7S

CUSTOMER (customer_id, customer_name, city,_postal)