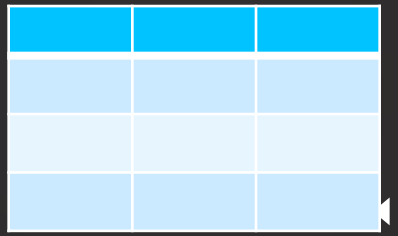
Fact-Dimension Model

(Star Schema)

Dimension 1

Dimension 2



Fact Table

Dimension 3

Dimension 4

Supermarket

Transaction-ID	Product-ID	Price	Date	Location-ID	Location	Employees
12345	1	25$	01-01-2020	1	Vancouver	10
...	2	13$	01-01-2020	2	Chicago	15
	5	10	02-01-2020	1	Vancouver	10

Supermarket

Transaction-ID	Product-ID	Price	Date
12345	1	25$	01-01-2020
...	2	13$	01-01-2020
	5	10	02-01-2020

Location-ID	Location	Employees
1	Vancouver	10
2	Chicago	15
1	Vancouver	10

Supermarket

Transaction-ID	Product-ID	Price	Date	Location-ID	Location	Employess
12345	1	25$	01-01-2020	1	Vancouver	10
...	2	13$	01-01-2020	2	Chicago	15
	5	10	02-01-2020	1	Vancouver	10

Location-ID	Location	Employees
1	Vancouver	10
2	Chicago	15
3	New York	12

Supermarket

Transaction-ID	Product-ID	Price	Date	Location-ID
12345	1	25$	01-01-2020	1
...	2	13$	01-01-2020	2
	5	10	02-01-2020	1

Location-ID	Location	Employees
1	Vancouver	10
2	Chicago	15
3	New York	12

Supermarket

Transaction-ID	Product-ID	Price	Date	Location-ID
12345	1	25$	01-01-2020	1
...	2	13$	01-01-2020	2
	5	10	02-01-2020	1

Fact Table

100.000 data rows

Location-ID	Location	Employees	Sales area	…
1	Vancouver	10	110sqm	
2	Chicago	15	165sqm	
3	New York	12	105sqm	

Dimension Table

5 data rows

Supermarket

Foreign Key

Transaction-ID	Product-ID	Price	Date	Location-ID
12345	1	25$	01-01-2020	1
...	2	13$	01-01-2020	2
	5	10	02-01-2020	1

Primary Key

Location-ID	Location	Employees	Sales area	…
1	Vancouver	10	110sqm	
2	Chicago	15	165sqm	
3	New York	12	105sqm	

Product dimension
Product name, price, country of production etc.

Date dimension
Month, year, day of weeketc.

Transact. ID	Product-ID	Date-ID	Location-ID
123	1	2020-01-01	2
124	3	2020-01-01	1
125	1	2020-01-01	3

Fact table

Location dimension
Location, country, city, address, store size etc.