Modelo dimensional do Departamento da Guarda Municipal Modelagem Informacional

Pedro Henrique Coterli 29 de março de 2024

Exercício 1

CALENDAR Dime	ension							PAYER Dimension				
CalendarKey	FullDate	DayOfWeek	DayOfMonth	Month	Qtr	Year]	PayerKey	PayerDLN	PayerName	PayerGender	PayerBirthYear
1	01/jan/20	Wednesday	1	January	1	2020		1	111	Bill	Male	1998
2	02/jan/20	Thursday	2	January	1	2020		2	222	Suzy	Female	1987
								3	333	David	Male	1976
OFFICER Dimens	sion											
OfficerKey	OfficerID	OfficerName	OfficerRank]		TICKETREVENUE Fact 1	able					
1	1	Joe	Sergeant]		CalendarKey	OfficerKey	PayerKey	VehicleKey	TicketTypeKey	<u>TicketID</u>	Amount
2	2	Mike	Patrolman]		1	1	1	1	3	1	\$200,00
3	3	Bob	Patrolman]		2	2	2	2	3	2	\$200,00
						2	3	1	1	4	3	\$100,00
TICKETTYPE Dime	ension					1	1	1	1	1	4	\$100,00
<u>TicketTypeKey</u>	TicketCategory	TicketViolation	TicketFee]		1	2	2	2	2	5	\$150,00
1	Parking	Meter Expired	\$100,00]		2	3	3	3	2	6	\$150,00
2	Parking	Hydrant	\$150,00]								
3	Driving	Red Light	\$200,00]								
4	Driving	Seat Belt	\$100,00]								
VEHICLE Dimension												
<u>VehicleKey</u>	VehicleLPN	VehicleMake	VehicleModel		VehicleOwnerDLN	VehicleOwnerName	VehicleOwnerGender	VehicleOwnerBirthYear				
1	IL1111	Honda	CRV	2017	111	Bill	Male	1998				
2	IL2222	Honda	Civic	2020	222	Suzy	Female	1987				
3	IL3333	Honda	Civic	2018	333	David	Male	1976				

Figura 1: Tabelas do modelo TicketRevenue

Exercício 2

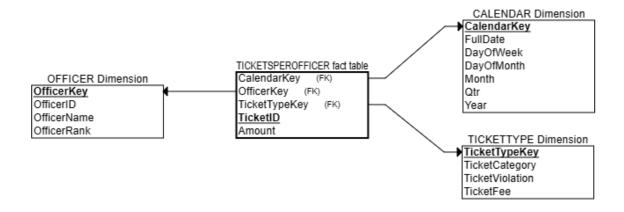


Figura 2: Modelo dimensional TicketsPerOfficer

Exercício 3

CALENDAR Dimension

CalendarKey	FullDate	DayOfWeek	DayOfMonth	Month	Qtr	Year
1	01/jan/20	Wednesday	1	January	1	2020
2	02/jan/20	Thursday	2	January	1	2020

OFFICER Dimension

OfficerKey	OfficerID	OfficerName	OfficerRank
1	1	Joe	Sergeant
2	2	Mike	Patrolman
3	3	Bob	Patrolman

TICKETTYPE Dimension

TicketTypeKey	TicketCategory	TicketViolation	TicketFee
1	Parking	Meter Expired	\$100,00
2	Parking	Hydrant	\$150,00
3	Driving	Red Light	\$200,00
4	Driving	Seat Belt	\$100,00

TICKETSPEROFFICER Fact Table

<u>TicketID</u>	CalendarKey	OfficerKey	TicketTypeKey	Amount
1	1	1	3	\$200,00
2	1	1	1	\$100,00
3	1	2	2	\$150,00
4	2	2	3	\$200,00
5	2	3	4	\$100,00
6	2	3	2	\$150,00

REVENUEPEROFFICER Aggregate Fact Table

CalendarKey	OfficerKey	Revenue
1	1	\$300,00
1	2	\$150,00
1	3	\$0,00
2	1	\$0,00
2	2	\$200,00
2	3	\$250,00

Figura 3: Tabelas do modelo TicketsPerOfficer