

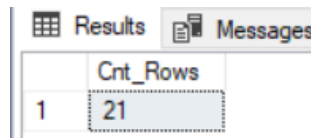
SQL Training

Querying

This training will cover most of the basic and intermediate functionalities of SQL. To perform the queries that follows we will use the DreamAirlines_DW database.


Please **save all your queries** to ease the final process were will be discussed any doubts that you had during the training.

1. Let's start by just returning all rows and all columns from with DimHotelBooking. How many rows does the table have?



	Cnt_Rows
1	21

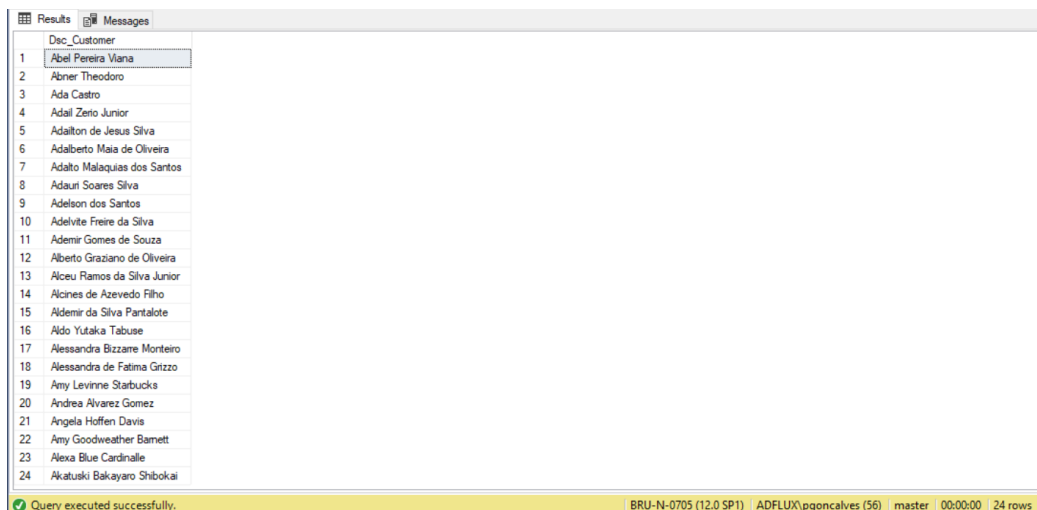
2. How many distinct employees do we have in DimHotelBooking?



	Disc_Employee
1	Alpio Jafomega
2	Angela Goncalves
3	Edilson Maracana
4	Eliana Silva
5	Emily Smith
6	Jessica Lopes
7	Joana Salgado
8	Jose Santos
9	Kizua Gratidão
10	Lucia Perez
11	Mirela Jones
12	Pedro Goncalves
13	Valeria Garcia
14	Vanderson Jesus

Query executed successfully. BRU-N-0705 (12.0 SP1) ADFLUX\pgoncalves (56) master 00:00:00 14 rows

3. Use DimCustomer to make a list of every customer that the first name starts with "A".



	Disc_Customer
1	Abel Pereira Viana
2	Abner Theodoro
3	Ada Castro
4	Adal Zero Junior
5	Adalton de Jesus Silva
6	Adalberto Maia de Oliveira
7	Adalto Malaquias dos Santos
8	Adauri Soares Silva
9	Adelson dos Santos
10	Adelvite Freire da Silva
11	Ademir Gomes de Souza
12	Alberto Graziano de Oliveira
13	Aiceu Ramos da Silva Junior
14	Alcines de Azevedo Filho
15	Aldemir da Silva Pantalote
16	Aldo Yutaka Tabuse
17	Alessandra Bizzare Monteiro
18	Alessandra de Fatima Grizzo
19	Amy Levine Starbucks
20	Andrea Alvarez Gomez
21	Angela Hoffer Davis
22	Amy Goodweather Barnett
23	Alexa Blue Cardinale
24	Akatutsuki Bakayaro Shibokai

Query executed successfully. BRU-N-0705 (12.0 SP1) ADFLUX\pgoncalves (56) master 00:00:00 24 rows

4. Use DimTravelBooking to make a list of every distinct travel destiny that not ends with an "A".

Results Messages

	Dsc_TravelDestiny
1	Belgium
2	Brazil
3	Denmark
4	England
5	Finland
6	France
7	Germany
8	Italy
9	Norway
10	Peru
11	Spain
12	Sweden
13	Switzerland
14	Thailand
15	Turkey
16	Ukraine
17	Uruguay

Query executed successfully.

BRU-N-0705 (12.0 SP1) | ADFLUX\pgoncalves (56) | master | 00:00:00 | 17 rows

5. Make a query with a new column for DimHotelBooking that contains an abbreviation with the first two letters in capitals, for the column DSC_TravelDestiny. Let's name it COD_TravelDestiny.

Results		Messages						
	PK_HotelBooking	FK_TravelBooking	DSC_TravelAgency	DSC_Employee	DSC_Customer	DSC_TravelDestiny	COD_TravelDestiny	DSC_Hotel
1	1	1	Travel Agency - Lisbon	Angela Goncalves	Nico Robin	Italy	IT	Milan Marriott Hotel
2	2	2	Travel Agency - Lisbon	Edilson Maracana	Nami Saytama	Italy	IT	Milan Marriott Hotel
3	3	3	Travel Agency - Lisbon	Edilson Maracana	Captain Ussop	Germany	GE	InterContinental Frankfurt
4	4	4	Travel Agency - Lisbon	Angela Goncalves	Rorronoa Zoro	Brazil	BR	Grand Mercure Rio de Janeiro Copacabana
5	5	5	Travel Agency - Lisbon	Edilson Maracana	Monkey D. Luffy	Turkey	TU	Neorion Hotel
6	6	6	Travel Agency - Faro	Mirela Jones	Akatsuki Bakayaro Shibokai	France	FR	Hotel France Louvre
7	7	7	Travel Agency - Porto	Vanderson Jesus	Nicoletta Maria Francesca	Spain	SP	Hotel Barceló Raval
8	8	8	Travel Agency - Porto	Pedro Goncalves	Alexa Blue Cardinale	Ukraine	UK	Hotel Ukraine
9	9	9	Travel Agency - Faro	Emily Smith	Vishna Hoffum Ballantyne	Australia	AU	The Westin Sydney
10	10	10	Travel Agency - Porto	Valeria Garcia	Elsia Hasaki Bockum	Russia	RU	Moscow Marriott Grand Hotel
Query executed successfully.								
BRU-N-0705 (12.0 SP1) ADFLUX\pgoncalves (56) master 00:00:00 83 rows								

6. Let's suppose we need the hotel Bookings that were made with the travel destiny "Brazil". How many bookings do we have?

Results		Messages							
	PK_HotelBooking	FK_TravelBooking	DSC_TravelAgency	DSC_Employee	DSC_Customer	DSC_TravelDestiny	DSC_Hotel	DSC_HotelService	Lo
1	4	4	Travel Agency - Lisbon	Angela Goncalves	Ronronoa Zoro	Brazil	Grand Mercure Rio de Janeiro Copacabana	Half-Board	1
2	18	19	Travel Agency - Lisbon	Jessica Lopes	Liza Sofia Fitzpatrick	Brazil	Grand Mercure Rio de Janeiro Copacabana	Half-Board	1
3	26	30	Travel Agency - Lisbon	Angela Goncalves	Jack Heysenbauer Prokum	Brazil	Grand Mercure Rio de Janeiro Copacabana	Half-Board	1
4	34	40	Travel Agency - Lisbon	Jessica Lopes	Haroldo da Silva Ferreira	Brazil	Grand Mercure Rio de Janeiro Copacabana	Breakfast	1
5	40	46	Travel Agency - Porto	Pedro Goncalves	Fernanda Teixeira de Araujo	Brazil	Grand Mercure Rio de Janeiro Copacabana	Breakfast	1
6	47	54	Travel Agency - Porto	Elana Silva	Edilson Yukio Shimabuku	Brazil	Grand Mercure Rio de Janeiro Copacabana	Half-Board	1
7	54	61	Travel Agency - Faro	Mirela Jones	Deusdete dos Santos Farias	Brazil	Grand Mercure Rio de Janeiro Copacabana	Full-Board	1
8	63	72	Travel Agency - Faro	Emily Smith	Cynthia Cespedes de Carvalho	Brazil	Grand Mercure Rio de Janeiro Copacabana	Breakfast	1
9	72	85	Travel Agency - Porto	Pedro Goncalves	Aldemir da Silva Pantalote	Brazil	Grand Mercure Rio de Janeiro Copacabana	Breakfast	1
10	76	90	Travel Agency - Lisbon	Edilson Maracana	Adelvite Freire da Silva	Brazil	Grand Mercure Rio de Janeiro Copacabana	Breakfast	1
11	83	99	Travel Agency - Porto	Elana Silva	Abel Pereira Viana	Brazil	Grand Mercure Rio de Janeiro Copacabana	Breakfast	1
<div>Query executed successfully.</div> <div>BRU-N-0705 (12.0 SP1) ADFLUX\pgoncalves (56) master 00:00:00 11 rows</div>									

7. To which travel agency belongs each employee?

	DSC_Employee	Dsc_TravelAgency
1	Goncalo Gianni	Travel Agency - Lisbon
2	Angela Goncalves	Travel Agency - Lisbon
3	Jessica Lopes	Travel Agency - Lisbon
4	Alpio Jafosmega	Travel Agency - Lisbon
5	Edilson Maracana	Travel Agency - Lisbon
6	Jose Santos	Travel Agency - Porto
7	Vanderson Jesus	Travel Agency - Porto
8	Pedro Goncalves	Travel Agency - Porto
9	Valeria Garcia	Travel Agency - Porto
10	Eliana Silva	Travel Agency - Porto
11	Joana Salgado	Travel Agency - Faro
12	Lucia Perez	Travel Agency - Faro
13	Emily Smith	Travel Agency - Faro
14	Mirela Jones	Travel Agency - Faro
15	Kizua Gratidão	Travel Agency - Faro

Query executed successfully. BRU-N-0705 (12.0 SP1) ADFLUX\pgoncalves (56) master 00:00:00 15 rows

8. Which employee has more years in the company?

	DSC_Employee	Antiquity_Company
1	Eliana Silva	22
2	Joana Salgado	21
3	Lucia Perez	21
4	Angela Goncalves	21
5	Valeria Garcia	20
6	Edilson Maracana	16
7	Jose Santos	15
8	Goncalo Gianni	15
9	Emily Smith	11
10	Mirela Jones	6
11	Vanderson Jesus	6
12	Pedro Goncalves	3
13	Jessica Lopes	3
14	Alpio Jafosmega	2
15	Kizua Gratidão	1

Query executed successfully. BRU-N-0705 (12.0 SP1) ADFLUX\pgoncalves (56) master 00:00:00 15 rows

9. Split the Dsc_Employee column in two new columns, FirstName and LastName.

	PK_Employee	FK_Travel_Agency	FirstName	LastName	Birthdate	DSC_JobTitle	DSC_Address	COD_PostalCode	DSC_City	DSC_Gender	DSC_Nationality	DSC_MaritalS
1	1	1	Goncalo	Gianni	19800126	Manager	Rua da Liberdade,1	1800-031	Lisbon	Male	Portuguese	Married
2	2	1	Angela	Goncalves	19771105	Sales Manager	Avenida da Alameda,56	1758-001	Lisbon	Female	Portuguese	Married
3	3	1	Jessica	Lopes	19900530	Salesman	Praça Estádio da Luz, 37	1000-001	Lisbon	Female	Portuguese	Single
4	4	1	Alpio	Jafosmega	19740425	Salesman	Rua Marquês do Pombal, 20	1110-023	Lisbon	Male	Angolan	Divorced
5	5	1	Edilson	Maracana	19840216	Salesman	Rua Do Rossio, 11	1230-089	Lisbon	Male	Braslian	Married
6	6	2	Jose	Santos	19580321	Manager	Avenida dos Aliados, 33	4050-122	Porto	Male	Portuguese	Married
7	7	2	Vanderson	Jesus	19920629	Sales Manager	Rua da Nobreza, 70	4700-353	Porto	Male	Braslian	Married
8	8	2	Pedro	Goncalves	19860627	Salesman	Praceta do Bulhão, 10	2112-323	Porto	Male	Portuguese	Single
9	9	2	Valeria	Garcia	19800823	Salesman	Rua do Vizinho de cima, 89	4435-234	Porto	Female	Spanish	Single
10	10	2	Eliana	Silva	19781012	Salesman	Avenida dos Retomados, 90	4000-001	Porto	Female	Braslian	Divorced
11	11	3	Joana	Salgado	19731226	Manager	Rua do sol, 21	8000-007	Faro	Female	Portuguese	Divorced
12	12	3	Lucia	Perez	19781011	Sales Manager	Rua da Alegria, 66	7330-012	Faro	Female	Spanish	Married
13	13	3	Emily	Smith	19831201	Salesman	Avenida da Boa Vida, 34	8000-006	Faro	Female	English	Single
14	14	3	Mirela	Jones	19910114	Salesman	Rua dos Perdidos, 45	8364-023	Faro	Female	English	Married

Query executed successfully. BRU-N-0705 (12.0 SP1) ADFLUX\pgoncalves (56) master 00:00:00 15 rows

10. Combine the two columns from DimHotel, [DSC_Hotel] and [DSC_HotelCountry] in the following format: "Tango de Mayo Hotel (Argentina)". Name it "HotelName_Country".

PK_Hotel	DSC_Hotel	DSC_HotelCountry	HotelName_Country	Load_ID	HashColumn	Insert
1	Tango de Mayo Hotel	Argentina	Tango de Mayo Hotel (Argentina)	1	0xC05EC6452D1FA5E0934286759ED82FC186CFD6CE	2019-
2	The Westin Sydney	Australia	The Westin Sydney (Australia)	1	0xC6DB96053467BE41D0406AD063C3ADB8335950C	2019-
3	Radisson RED, Brussels	Belgium	Radisson RED, Brussels (Belgium)	1	0x902E0869C8DF7BD40916CA912307980E9F2696F7	2019-
4	Grand Mercure Rio de Janeiro Copacabana	Brazil	Grand Mercure Rio de Janeiro Copacabana (Brazil)	1	0x75B085FE02E51887A905059FDC2A6A8C9AC5BCEE	2019-
5	Chelsea Hotel Toronto	Canada	Chelsea Hotel Toronto (Canada)	1	0xC1FBB730F906140334CB217E22075C121FC1248D	2019-
6	Radisson Blu Scandinavia	Denmark	Radisson Blu Scandinavia (Denmark)	1	0xE1980E79A408AB9479E16B849DB274AAEF9F57CC	2019-
7	Cophorne Tara Hotel London Kensington	England	Cophorne Tara Hotel London Kensington (England)	1	0xFB9C8F6200ED7735041D05712F4D7055D212EF3	2019-
8	Holiday Inn Helsinki City Centre	Finland	Holiday Inn Helsinki City Centre (Finland)	1	0xABC6DB9B54F58ED032EF9329D24B0EC74F39B83B	2019-
9	Hotel France Louvre	France	Hotel France Louvre (France)	1	0x2F296962DA1DEC386C507FC18B378C04D75CE2B5	2019-
10	InterContinental Frankfurt	Germany	InterContinental Frankfurt (Germany)	1	0xD89D42D7DA1A80E93FAEF221D53D657B4F3D3C88	2019-
11	Milan Marriott Hotel	Italy	Milan Marriott Hotel (Italy)	1	0x2645E3DF058572DA016D2571D81961420147B571	2019-
12	Quality hotel Olavsgaard	Norway	Quality hotel Olavsgaard (Norway)	1	0x08A3570432441522464C38167C9B8EACEB059A9	2019-

11. Convert the birthdate of the customer to the following format "YYYY-MM-DD hh:mi:ss.mmm"

PK_Customer	DSC_Customer	Birthdate	DSC_Gender	DSC_Nationality	DSC_Address	COD_PostalCode	DSC_City	DSC_Cust
1	Abel Pereira Viana	1993-12-19 00:00:00.000	Male	Portuguese	Travessa das Águas, 6	4000-001	Porto	Individual
2	Abner Theodoro	1991-09-24 00:00:00.000	Male	Australian	Rua Batária, 50	4000-104	Porto	Company
3	Ada Castro	1993-04-13 00:00:00.000	Female	Portuguese	Avenida da República Afândega de Faro, 10	8000-007	Faro	Company
4	Adail Zerio Junior	2002-02-20 00:00:00.000	Male	Australian	Rua da Constituição, 352	4249-001	Porto	Individual
5	Adailton de Jesus Silva	1995-05-22 00:00:00.000	Male	Portuguese	Avenida Almirante Gago Coutinho João Mateus Lope...	1000-001	Lisboa	Individual
6	Adalberto Maia de Oliveira	1991-01-27 00:00:00.000	Male	Australian	Rua Pereira Reis, 278	4249-001	Porto	Company
7	Adalto Malaquias dos Santos	1993-03-25 00:00:00.000	Male	Portuguese	Rua Aurélio da Paz dos Reis Bairro do Regado, 34	4250-006	Porto	Individual
8	Adauni Soares Silva	2003-08-06 00:00:00.000	Male	Portuguese	Rua Avelar Brotero Bairro do Regado, 2	4250-003	Porto	Individual
9	Adelson dos Santos	1991-12-24 00:00:00.000	Male	Australian	Avenida da República Hotel Eva, 23	8000-007	Faro	Individual
10	Adelvite Freire da Silva	1998-06-29 00:00:00.000	Male	Portuguese	Avenida de Bema, 45	1067-001	Lisboa	Individual
11	Adelino Gomes dos Santos	1998-11-22 00:00:00.000	Male	Australian	Avenida Alameda da Estação de Matos de Lezíria	1150-001	Lisboa	Company

Query executed successfully. BRU-N-0705 (12.0 SP1) | ADFLUX\pgoncalves (56) | master | 00:00:00 | 99 rows

12. Make a list with the customers age. Order from the youngest to the oldest.

PK_Customer	DSC_Customer	Birthdate	Age	DSC_Gender	DSC_Nationality	DSC_Address	COD_PostalCode	DSC_City	DSC_CustomerType	Load_ID
42	Diana Oliveira Paixao	20091030	10	Female	German	Travessa Campo 24 de Agosto, 138	4300-101	Porto	Individual	1
40	Deuzeni Almeida Santos	20051030	14	Female	Brazilian	Rua Engenheiro Ezequiel de Campos, 488	4149-004	Porto	Individual	1
38	Deocleciano Leite Martins	20041129	15	Male	French	Rua Luís de Camões, 133	1349-003	Lisboa	Individual	1
39	Deusdete dos Santos Farias	20031030	16	Female	French	Travessa Bouzela, 7	8000-442	Faro	Individual	1
8	Adauni Soares Silva	20030806	16	Male	Portuguese	Rua Avelar Brotero Bairro do Regado, 2	4250-003	Porto	Individual	1
4	Adail Zerio Junior	20020220	17	Male	Australian	Rua da Constituição, 352	4249-001	Porto	Individual	1
15	Aldemir da Silva Pantalote	19991206	20	Male	Brazilian	Rua de Pedro Hispano, 1179	4269-004	Porto	Company	1
36	Doriana Maria Saliba Dias	19991008	20	Female	Brazilian	Rua de Augusto Lessa 473	4200-101	Porto	Individual	1
17	Alessandra Bizzame Monteiro	19980421	21	Female	German	Rua Barros Lima, 735	4300-006	Porto	Individual	1

Query executed successfully. BRU-N-0705 (12.0 SP1) | ADFLUX\pgoncalves (56) | master | 00:00:00 | 99 rows

13. Generate the following segments by age to the customer:

- Segment A: 10 – 17
- Segment B: 18 – 24
- Segment C: 25 – 34
- Segment D: 35 – 44
- Segment E: 45 – 54
- Segment F: 55 – 64
- Segment G: 65+

How many customers do we have per segment? Which segment is the strongest one and in which one we should improve the most?

Results Messages		
	SegmentAge	Ant_Customers
1	SEGMENT C	36
2	SEGMENT B	16
3	SEGMENT F	16
4	SEGMENT D	14
5	SEGMENT E	7
6	SEGMENT A	6
7	SEGMENT G	4

Query executed successfully. BRU-N-0705 (12.0 SP1) ADFLUX\pgoncalves (56) master 00:00:00 7 rows

14. Which employee is the oldest?

Results Messages		
	DSC_Employee	Age
1	Jose Santos	61

Query executed successfully.

15. Which cars doesn't have been rented?

Results Messages		
	PK_CarRenting	DSC_Car
1	NULL	Renault 5 GT Turbo
2	NULL	Opel Corsa A 1.5 D
3	NULL	Volkswagen Lupo 1.0
4	NULL	Fiat Panda 1.2
5	NULL	Skoda Fabia 1.6

16. What is the highest salary?

Results		Messages	
	Highest_Salary		
1	2200.00		

Query executed successfully.

17. What is the lowest salary?

Results		Messages
Lowest_Salary		
1	1500.00	

Query executed successfully.

18. Which hotel booking that has the lowest breakfast service?

Results		Messages
DSC_Hotel	DSC_HotelService	AMT_Acomodation
1 Hotel France Louvre	Breakfast	396.00

Query executed successfully. BRU-N-0705 (12.0 SP1) | ADFLUX\pgoncalves (56) | master | 00:00:00 | 1 rows

19. Which car has the highest daily rate by rental company?

	DSC_RentalCompany	DSC_Car	AMT_DailyRate
1	EcoCars	Volkswagen Polo 1.2	45.00
2	GetCars	Volkswagen Passat 2.0	350.00
3	SafeCars	Ford Fiesta 1.5	80.00
4	SuperCars	Ferrari 488 GTB	1700.00
5	SuperCars	Lamborghini Aventador	1700.00

Query executed successfully. BRU-N-0705 (12.0 SP1) | ADFLUX\pgoncalves (56) | master | 00:00:00 | 5 rows

20. Which car has the highest rental amount in July of 2017?

	Dsc_Car	Amt_Rental
1	BMW 116i 1.6	1400.00

Query executed successfully. BRU-N-0705 (12.0 SP1) | ADFLUX\pgoncalves (56) | master | 00:00:00 | 1 rows

21. What are the cars with the insurance value under 8000€ in 2016?

	Dsc_Car	AMT_Insurance
1	Opel Corsa 1.4 D	466.00
2	Mercedes Benz C Class 1.5	204.00
3	Renault Twingo 1.2	188.00
4	BMW 320i Sport 2.0 Turbo	120.00
5	Ferrari 488 GTB	120.00
6	Ford Mustang GT	120.00
7	Lamborghini Aventador	120.00
8	Volkswagen Passat 2.0	120.00
9	Audi A3 1.6	104.00
10	Seat Ibiza 1.4 TDI	104.00
11	Volkswagen Polo 1.2	94.00
12	Volkswagen UP 1.0	20.00
13	Ford Fiesta 1.5	20.00
14	Nissan Micra 1.0	10.00

Query executed successfully. BRU-N-0705 (12.0 SP1) | ADFLUX\pgoncalves (56) | master | 00:00:00 | 14 rows

22. Find out the TOP 5 of employees per number of travel bookings.

Results		Messages
	Dsc_Employee	NrTravelBookings
1	Jessica Lopes	11
2	Angela Goncalves	10
3	Alpio Jafosmega	9
4	Emily Smith	8
5	Vanderson Jesus	8

Query executed successfully. BRU-N-0705 (12.0 SP1) ADFLUX\pgoncalves (56) master 00:00:00 5 rows

23. Find out the TOP 3 of employees per number of hotel bookings of each travel agency.

Results Messages

	TravelAgency	Employee	NrBookings
1	Travel Agency - Faro	Emily Smith	8
2	Travel Agency - Faro	Kizua Gratidão	7
3	Travel Agency - Faro	Lucia Perez	7
4	Travel Agency - Lisbon	Jessica Lopes	11
5	Travel Agency - Lisbon	Angela Goncalves	10
6	Travel Agency - Lisbon	Alpio Jafosmega	9
7	Travel Agency - Porto	Vanderson Jesus	8
8	Travel Agency - Porto	Valeria Garcia	7
9	Travel Agency - Porto	Elana Silva	7

Query executed successfully.

BRU-N-0705 (12.0 SP1)ADFLUX\pgoncalves (56)master00:00:009 rows

24. Find out the TOP 3 and BOTTOM 3 of employees per number of hotel bookings.

Results		Messages
	Dsc_Employee	NrTravelBookings
1	Jessica Lopes	9
2	Alpio Jafosmega	8
3	Angela Goncalves	8
4	Goncalo Gianno	2
5	Joana Salgado	2
6	Jose Santos	2

Query executed successfully. BRU-N-0705 (12.0 SP1) ADFLUX\pgoncalves (56) master 00:00:00 6 rows

25. Find out the value of travel insurance sold per employee where the type is different of "Standard" and insurance is not 0. Round the value by two digits, value should two 0 after the comma ".00", and order descendant by the insurance amount.

Results		Messages
	Dsc_Employee	Amt_Insurance
1	Valeria Garcia	253.92
2	Vanderson Jesus	243.89
3	Edilson Maracana	236.93
4	Emily Smith	216.95
5	Jessica Lopes	186.94
6	Alpio Jafosmega	186.94
7	Kizua Gratidão	186.94
8	Lucia Perez	186.94
9	Angela Goncalves	169.95
10	Elana Silva	157.91
11	Mirela Jones	149.97
12	Pedro Goncalves	136.95
13	Goncalo Gianno	66.98
14	Joana Salgado	19.98
15	Jose Santos	19.98

Query executed successfully. BRU-N-0705 (12.0 SP1) ADFLUX\pgoncalves (56) master 00:00:00 15 rows

26. Give me a list with the employees, job title and salary, ordered by the years that they have in the company. From the oldest one to the most recent.

	DSC_Employee	DSC_JobTitle	Seniority
1	Eliana Silva	Salesman	22
2	Joana Salgado	Manager	21
3	Lucia Perez	Sales Manager	21
4	Angela Goncalves	Sales Manager	21
5	Valeria Garcia	Salesman	20
6	Edilson Maracana	Salesman	16
7	Jose Santos	Manager	15
8	Goncalo Gianni	Manager	15
9	Emily Smith	Salesman	11
10	Mirela Jones	Salesman	6
11	Vanderson Jesus	Sales Manager	6
12	Pedro Goncalves	Salesman	3
13	Jessica Lopes	Salesman	3
14	Alpio Jafosmega	Salesman	2
15	Kizua Gratidão	Salesman	1

Query executed successfully. BRU-N-0705 (12.0 SP1) ADFLUX\pgoncalves (56) master 00:00:00 15 rows

27. What are the travel amount values per year and month?

	Year	Month	Amt_Travel
1	2015	10	403.00
2	2015	11	1080.00
3	2015	12	1200.00
4	2016	1	1844.00
5	2016	2	266.00
6	2016	3	1725.00
7	2016	4	2711.00
8	2016	5	726.00
9	2016	6	2065.00
10	2016	7	1154.00

Query executed successfully. BRU-N-0705 (12.0 SP1) ADFLUX\pgoncalves (56) master 00:00:00 36 rows

28. What are the average of travel sales for each employee for 2016? Round the average by to digits, value should two 0 after the comma ".00".

	Dsc_Employee	Year	AVG_Amt_Travel
1	Angela Goncalves	2016	214.08
2	Jessica Lopes	2016	211.83
3	Mirela Jones	2016	206.50
4	Alpio Jafosmega	2016	130.50
5	Emily Smith	2016	115.00
6	Valeria Garcia	2016	108.25
7	Vanderson Jesus	2016	104.83
8	Edilson Maracana	2016	93.67
9	Pedro Goncalves	2016	88.75
10	Kizua Gratidão	2016	86.08
11	Eliana Silva	2016	77.08
12	Joana Salgado	2016	25.42
13	Jose Santos	2016	25.42
14	Goncalo Gianni	2016	18.58
15	Lucia Perez	2016	15.00

Query executed successfully. BRU-N-0705 (12.0 SP1) ADFLUX\pgoncalves (56) master 00:00:00 15 rows

29. Make a query that shows the percent of total of travel sales per employee that have more than 5 years in the company. Who is the employee that contributes the most and the one that contributes the less?

Results		Messages
	Dsc_Employee	PercentTotal
1	Alpio Jafosmega	12.98
2	Jessica Lopes	10.11
3	Emily Smith	9.5
4	Angela Goncalves	9.21
5	Mirela Jones	9.06
6	Eliana Silva	7.95
7	Kizua Gratidão	6.85
8	Lucia Perez	6.79
9	Pedro Goncalves	6.27
10	Valeria Garcia	5.65
11	Vanderson Jesus	4.57
12	Edilson Maracana	4.37
13	Joana Salgado	3.65
14	Goncalo Gianni	2.23
15	Jose Santos	0.82

Query executed successfully. BRU-N-0705 (12.0 SP1) ADFLUX\pgoncalves (56) master 00:00:00 15 rows

30. Add a new column to the DimCar called DSC_CarColor.

Results		Messages						
	PK_Car	DSC_RentalCompany	DSC_Car	Load_ID	HashColumn	Insert_Date	Update_Date	DSC_CarColor
1	1	EcoCars	Nissan Micra 1.0	1	0x395775DCA51E5939F318F3D142D4E706E95F170C	2019-04-08 00:00:00.000	2019-04-08 00:00:00.000	NULL
2	2	EcoCars	Volkswagen UP 1.0	1	0x81224FDA4CAB49D7FF4277BF09443908D4C2B2F9	2019-04-08 00:00:00.000	2019-04-08 00:00:00.000	NULL
3	3	EcoCars	Peugeot 108 1.0	1	0x35F4DB12ADD5200478AF064F864B2C1B0E08B774	2019-04-08 00:00:00.000	2019-04-08 00:00:00.000	NULL
4	4	EcoCars	Smart Forfour 1.1	1	0xE9685D32B6A1A4FBFA243A03AF43F520DD2286ED	2019-04-08 00:00:00.000	2019-04-08 00:00:00.000	NULL
5	5	EcoCars	Renault Twingo 1.2	1	0x626C0D3182DFDC4009F8F09256195692E8016AD2	2019-04-08 00:00:00.000	2019-04-08 00:00:00.000	NULL
6	6	EcoCars	Volkswagen Polo 1.2	1	0x141F6DE9FFD44EB265DABFB0131E4A6A41C0BEF9	2019-04-08 00:00:00.000	2019-04-08 00:00:00.000	NULL

Query executed successfully.

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ADFLUX\pgoncalves (57)

DreamAirlines_DW

00:00:00

25 rows

31. Update the new column with the following :

- Nissan Micra 1.0 White
- Volkswagen UP 1.0 Black
- Peugeot 108 1.0 White
- Smart Forfour 1.1 Black
- Renault Twingo 1.2 White
- Volkswagen Polo 1.2 Black
- Opel Adam 1.4 D White
- Opel Corsa 1.4 D Black
- Seat Ibiza 1.4 TDI Red
- Renault Clio 1.5 DCI Black
- Ford Fiesta 1.5 White
- Audi A3 1.6 Black
- BMW 116i 1.6 Red
- Mercedes Benz C Class 1.5 White
- Volkswagen Passat 2.0 Grey
- BMW 320i Sport 2.0 Turbo Blue
- Mercedes-Benz CLS 500 5.0 White
- Ford Mustang GT Green
- Ferrari 488 GTB Red
- Lamborghini Aventador Black
- Renault 5 GT Turbo Yellow
- Opel Corsa A 1.5 D Red
- Volkswagen Lupo 1.0 Green
- Fiat Panda 1.2 Grey
- Skoda Fabia 1.6 Blue

Results		Messages							
PK_Car	DSC_RentalCompany	DSC_Car	Load_ID	HashColumn	Insert_Date	Update_Date	DSC_CarColor		
1	EcoCars	Nissan Micra 1.0	1	0x395775DCA51E5939F318F3D142D4E706E95F170C	2019-04-08 00:00:00.000	2019-04-08 00:00:00.000	White		
2	EcoCars	Volkswagen UP 1.0	1	0x81224FDA4CAB49D7FF4277BF09443908D4C2B2F9	2019-04-08 00:00:00.000	2019-04-08 00:00:00.000	Black		
3	EcoCars	Peugeot 108 1.0	1	0x35F4DB12ADD5200478AF064F864B2C1B0E08B774	2019-04-08 00:00:00.000	2019-04-08 00:00:00.000	White		
4	EcoCars	Smart Forfour 1.1	1	0xE9685D32B6A1A4FBFA243A03AF43F520DD2286ED	2019-04-08 00:00:00.000	2019-04-08 00:00:00.000	Black		
5	EcoCars	Renault Twingo 1.2	1	0x626C0D3182DFDC4009F8F09256195692E8016AD2	2019-04-08 00:00:00.000	2019-04-08 00:00:00.000	White		
6	EcoCars	Volkswagen Polo 1.2	1	0x141F6DE9FFD44EB265DABFB0131E4A6A41C0BEF9	2019-04-08 00:00:00.000	2019-04-08 00:00:00.000	Black		
7	SafeCars	Opel Adam 1.4 D	1	0xF11CF475BEC2AF43CEEDB54EB001AB4E2D09951A	2019-04-08 00:00:00.000	2019-04-08 00:00:00.000	White		
8	SafeCars	Opel Corsa 1.4 D	1	0x2C23C45FE7DB554C60100A5A8BAD22FB1B1E1301	2019-04-08 00:00:00.000	2019-04-08 00:00:00.000	Black		
9	SafeCars	Seat Ibiza 1.4 TDI	1	0x975563B4A53A218F8893229A73952B9F22ACFC25	2019-04-08 00:00:00.000	2019-04-08 00:00:00.000	Red		
10	SafeCars	Renault Clio 1.5 DCI	1	0x2D79724CE859EEB9746F460E469271648AEDAF87	2019-04-08 00:00:00.000	2019-04-08 00:00:00.000	Black		

Query executed successfully.

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32. We closed a new contract with GlobalMotors and we will have available moto models as well.

a) Please create a new table called DimMotorcycle to store the new records.

- Table structure:

- Schema: dw

- Fields and table structure properties:

- [PK_Moto] [int] IDENTITY(1,1) NOT NULL
- [DSC_RentalCompany] [nvarchar](20) NULL
- [DSC_Moto] [nvarchar](50) NULL
- [Load_ID] [int] NULL
- [HashColumn] [binary](20) NULL
- [Insert_Date] [datetime] NULL
- [Update_Date] [datetime] NULL

Obs. For the Load_ID you can use 1, Hashcolumn you can use NULL, and for Insert_Date and Update_Date you can use the GETDATE() function.

b) Insert the new records in DimMotos.

- | | DSC_RentalCompany | DSC_Moto |
|---|-------------------|------------------------------------|
| • | GlobalMotors | Harley-Davidson Street 500 |
| • | GlobalMotors | Harley-Davidson Street 750 |
| • | GlobalMotors | Harley-Davidson Sportster Iron 883 |
| • | GlobalMotors | Harley-Davidson V-Rod Night |
| • | GlobalMotors | Harley-Davidson Dyna Fat Bob |

Results		Messages					
	PK_Motorcycle	DSC_RentalCompany	DSC_Motorcycle	Load_ID	HashColumn	Insert_Date	Update_Date
1	1	GlobalMotors	Harley-Davidson Street 500	1	NULL	2019-04-12 16:19:48.670	2019-04-12 16:19:48.670
2	2	GlobalMotors	Harley-Davidson Street 750	1	NULL	2019-04-12 16:20:26.430	2019-04-12 16:20:26.430
3	3	GlobalMotors	Harley-Davidson Sportster Iron 883	1	NULL	2019-04-12 16:20:29.787	2019-04-12 16:20:29.787
4	4	GlobalMotors	Harley-Davidson V-Rod Night	1	NULL	2019-04-12 16:20:32.257	2019-04-12 16:20:32.257
5	5	GlobalMotors	Harley-Davidson Dyna Fat Bob	1	NULL	2019-04-12 16:20:32.257	2019-04-12 16:20:32.257

Query executed successfully.

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DreamAirlines_DW

00:00:00

5 rows

33. The BI architect changed his mind, and prefer to change the name of the DimCar to DimVehicle and insert the new records.

- Change the name of DimCar to DimVehicle
- Insert the new rows from DimMoto to Dim DimVehicle
- Truncate the table DimMoto
- Drop the table Dim Moto

34. The next step in our DWH will be creating an OLAP cube, in order to do that we need to generate the views that will be the source of the cube. Generate a view for each dimension and factual table.