

Final Case SQL Module

Description

To develop the following case, I choose to create a fictional company that sells Automobile and motorcycle spare parts. The company is called GHA and operates in the Italian market.

So, as business data analyst I have to perform some sale analysis over the year 2022, to enlighten how the company and its sales representatives performed over the year.

I created a database in SQL workbench called “**Company sales**” holding seven tables within the database:

The data is fictional, all these information is created by me for final module exercise solely.

1. **Contact Information:** Contains the contact information for each of the reseller (Customers) companies for GHA products.

	id_add	id_company	Address	number	city
▶	1	7473	Via messina	48	Roma
	2	8627	Via zandall	27	Milano
	3	5193	Via Cantabria	25	Roma
	4	9985	Via Acri	10	Bologna
	5	6187	Piazza Bianca	54	Firenze
	6	6047	Via Crispi	89	Napoli
	7	5300	Via Milano	25	Napoli
	8	8251	Via Nomentana	85	Roma
	9	8009	Via Reggio	12	Palermo
	10	2305	Via cantabria	87	Madrid
⬅	NULL	NULL	NULL	NULL	NULL

[illegible]

2. **Customer:** Contains the id, name and the taxation code for each reseller company

	id_customer	name	tax_index
▶	2305	Cafe Twin	630lter27
	5193	Europarts	806rcs24
	5300	Diesel N20	829wtl27
	6047	Pista 24	728dyw8
	6187	Euroshell	293xop11
	7473	Bristol	703xik9
	8009	Moto Ricambi	769qsd25
	8251	Race Cafe	771jab10
	8627	Biking Reggio	814vyu26
	9985	Auto 24	180wik48




Table Name:

Schema:

Charset/Collation:

Engine:

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
⚡ id_customer	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
◇ name	VARCHAR(100)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◇ tax_index	VARCHAR(200)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL

3. **Order Placed:** Contains the information for each placed order (Sell), which means that every time the company sells an order to the customer each order will be attached to an invoice number.

	invoice	order_number	id_product	quantity	unit_price
▶	4211UX	105	237	75	69
	4213OZ	225	427	30	75
	4446LL	275	941	52	100
	4629KV	124	417	45	46
	4740SU	214	499	200	120
	4812EF	251	850	89	120
	4862KL	256	262	120	96
	4872YX	260	237	85	180
	4920EJ	229	286	100	50
	4925YF	283	850	180	350
★	NULL	NULL	NULL	NULL	NULL

[illegible]

4. **Product:** Contains a general information for every and each product that the company offers on the Italian market. Also, has the information about the supplier id and the stock existence.

[illegible]

5. **Sales:** The different sales information over the year 2022.

	invoice	id_customer	id_salesrep	date
▶	4211UX	6047	107	2022-09-26
	4213OZ	2305	113	2022-07-26
	4446LL	8009	221	2022-03-26
	4629KV	8627	140	2022-01-26
	4740SU	7473	181	2022-02-26
	4812EF	5300	277	2022-05-26
	4862KL	6187	202	2022-04-26
	4872YX	5193	221	2022-06-26
	4920EJ	8251	221	2022-08-26
	4925YF	9985	170	2022-05-26




Table Name:

Schema:

Charset/Collation:

Engine:

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
🔑 invoice	VARCHAR(50)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
🔗 id_customer	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
🔗 id_salesrep	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
🔗 date	DATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL





6. **Sales Representative:** Contains the information of the sales representatives of GHA company.

	id_salesrep	name	last_name	DNI
▶	107	Simone	Leonardi	1188
	113	Sara	Bedusa	3465
	140	Vittorio	Martini	2156
	170	Gigi	Bellini	2935
	181	Eugenio	Rinaldi	2614
	202	Peppe	Falabella	2756
	215	Amelia	Lazzaro	3308
	221	Paolo	Scatolini	1051
	237	Francesco	Maresca	1768
	277	Sambi	Ventura	3319
★	NULL	NULL	NULL	NULL

Table Name: Schema:

Charset/Collation: Engine:

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
 id_salesrep	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 name	VARCHAR(50)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
 last_name	VARCHAR(50)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
 DNI	INT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



7. **Supplier:** Contains the id and name information of each supplier of GHA company

	id_supplier	name
▶	97259	Kwik
	121160	Quantumik
	490248	Bioshell
	501408	Sterling
	589683	Ventio
	606216	the Kicker
	810729	United parts
	876999	Sellzio
	923765	Inko inc.
	982926	Monumental
	NULL	NULL

Table Name: Schema:

Charset/Collation: Engine:

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
 id_supplier	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 name	VARCHAR(100)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Queries for analysis

As a junior business analyst, I've been asked to perform some SQL queries to be shared with the board for them to have a better idea of how GHA performed last year(2022).

The board needs to know:

1. How many products are in the catalogue?
2. How many products are in Stock? it is important to remark that it refers to product existence itself not to quantity existence.

3. Which products have never been sold?
4. How many units were sold for each product?
5. What is the average number of units sold of each product?
6. Who is the top seller representative?
7. List all products for which more than 120 units have been sold?
8. Which are the resellers or customers located in Rome?