



✓ **Congratulations! You passed!**

TO PASS 80% or higher

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GRADE
87.50%

Weekly challenge 1

LATEST SUBMISSION GRADE

87.5%

1. In the data analysis process, which of the following refers to a phase of analysis? Select all that apply.

1 / 1 point

☒ Organize data into understandable sections

✓ **Correct**

There are four phases of analysis: organize data, format and adjust data, get input from others, and transform data by observing relationships between data points and making calculations.

☒ Format data using sorts and filters

✓ **Correct**

There are four phases of analysis: organize data, format and adjust data, get input from others, and transform data by observing relationships between data points and making calculations.

☐ Visualize the data

☒ Get input from others

✓ **Correct**

There are four phases of analysis: organize data, format and adjust data, get input from others, and transform data by observing relationships between data points and making calculations.

2. During which of the four phases of analysis do you gather the relevant datasets for a project?

0 / 1 point

☐ Format and adjust data

☐ Organize data

☒ Get input from others

☐ Transform data

✗ **Incorrect**

Review [the video on analysis phases](#) for a refresher.

3. You are performing a calculation during your analysis of a dataset. Which phase of analysis are you in?

1 / 1 point

☐ Organize data

☐ Format and adjust data

☒ Transform data

☐ Get input from others

✓ **Correct**

You are the transform data phase of analysis. This is an example of identifying relationships and patterns between data.

4. Typically, a data analyst uses filters when they want to expand the amount of data they are working with.

1 / 1 point

☐ True

☒ False

✓ **Correct**

Typically, a data analyst uses filters when they want to narrow down the amount of data they are working with.

5. A data analyst is sorting data in a spreadsheet. They select a specific collection of cells in order to limit the sorting to just specified cells. Which spreadsheet tool are they using?

1 / 1 point

- ☒ Sort Range
- ☐ Limit Range
- ☐ Limit Sort
- ☐ Sort Sheet

✓ **Correct**

Sort Range enables a data analyst to select a specific collection of cells in order to limit the sorting to just that range. Nothing else on the spreadsheet is rearranged besides the specified cells.

6. A data analyst sorts a spreadsheet range between cells D5 and M5. They sort in descending order by the third column, Column F. What is the syntax they are using?

1 / 1 point

- ☐ =SORT(D5:M5, C, FALSE)
- ☐ =SORT(D5:M5, C, TRUE)
- ☐ =SORT(D5:M5, 3, TRUE)
- ☒ =SORT(D5:M5, 3, FALSE)

✓ **Correct**

The correct syntax is =SORT(D5:M5, 3, FALSE). The first part of the function sorts the data in the specified range. The 3 represents the third column. And a FALSE statement sorts in descending order.

7. You are querying a database that contains data about music. Each musical genre is given an ID number. You are only interested in data related to the genre with ID number 7. The genre IDs are listed in the *genre_id* column.

1 / 1 point

You write the SQL query below. Add a WHERE clause that will return only data about the genre with Id number 7.

```
1 SELECT
2 *
3 FROM
4 track
5 WHERE genre_id=7;
```

Run

Reset

track_id	name	album_id	media_type_id	genre_id	composer
205	Jorge Da Capadócia	21	1	7	Jorge Ben
206	Prenda Minha	21	1	7	Tradicional
207	Meditação	21	1	7	Tom Jobim - Newton Mendoca
208	Terra	21	1	7	Caetano Veloso
209	Eclipse Oculito	21	1	7	Caetano Veloso
210	Texto "Verdade Tropical"	21	1	7	Caetano Veloso
211	Bem Devagar	21	1	7	Gilberto Gil
212	Drão	21	1	7	Gilberto Gil
213	Saudosismo	21	1	7	Caetano Veloso
214	Carolina	21	1	7	Chico Buarque
215	Sozinho	21	1	7	Peninha
216	Esse Cara	21	1	7	Caetano Veloso
217	Mel	21	1	7	Caetano Veloso - Waly Salomão
218	Linha Do Equador	21	1	7	Caetano Veloso - Djavan
219	Odara	21	1	7	Caetano Veloso
220	A Luz De Tieta	21	1	7	Caetano Veloso
221	Atrás Da Verd-E-Rosa Só Não Vai Quem Já Morreu	21	1	7	David Corrêa - Paulinho Carvalho -
222	Vida Boa	21	1	7	Fausto Nilo - Armandinho
223	Sozinho (Hitmakers Classic Mix)	22	1	7	None
224	Sozinho (Hitmakers Classic Radio Edit)	22	1	7	None
225	Sozinho (Caêdrum 'n' Bass)	22	1	7	None
226	Carolina	23	1	7	None
227	Essa Moça Ta Diferente	23	1	7	None
228	Vai Passar	23	1	7	None
229	Samba De Orly	23	1	7	None

(Output limit exceeded, 25 of 579 total rows shown)

Who is the composer listed in row 4 of your query result?

- ☐ Marisa Monte
- ☐ Gilberto Gil
- ☐ Lulu Santos
- ☒ Caetano Veloso

✓ **Correct**

The clause **WHERE genre_id = 7** will return only data about the album with ID number 6. The complete query is **SELECT * FROM track WHERE genre_id = 7**. The WHERE clause filters results that meet certain conditions. The WHERE clause includes the name of the column, an equals sign, and the value(s) in the column to include.

The composer Caetano Veloso is listed in row 4 of your query result.

8. You are working with a database that contains invoice data about online music purchases. You are only interested in invoices sent to customers located in the city of Delhi. You want to sort the invoices by order total in ascending order. The order totals are listed in the *total* column.

1 / 1 point

You write the SQL query below. Add an ORDER BY clause that will sort the invoices by order total in ascending order.

```
1 SELECT
2 *
3 FROM
4 invoice
5 WHERE
6 billing_city = "Delhi"
7 ORDER BY total DESC;
8
```

Run

Reset

ustomer_id	invoice_date	billing_address	billing_city	billing_state	billing_country	billing_postal_code	total
58	2010-07-23 00:00:00	12,Community Centre	Delhi	None	India	110017	13.86
58	2011-03-23 00:00:00	12,Community Centre	Delhi	None	India	110017	8.91
58	2013-05-03 00:00:00	12,Community Centre	Delhi	None	India	110017	5.94
58	2013-01-29 00:00:00	12,Community Centre	Delhi	None	India	110017	3.96
58	2013-12-22 00:00:00	12,Community Centre	Delhi	None	India	110017	1.99
58	2010-06-12 00:00:00	12,Community Centre	Delhi	None	India	110017	1.98
58	2012-10-27 00:00:00	12,Community Centre	Delhi	None	India	110017	1.98

What total appears in row 4 of your query result?

- ☐ 8.91
- ☐ 5.94
- ☒ 3.96
- ☐ 1.98

✓ Correct

The clause **ORDER BY total** will sort the invoices by order total in ascending order. The complete query is **SELECT * FROM invoice WHERE billing_city = "Delhi" ORDER BY total**. The ORDER BY clause tells the database how to organize the data it returns. The ORDER BY clause sorts data in ascending order by default.

The total 3.96 appears in row 4 of your query result.