TEACH2GIVE TECHNICAL TEST

Please adhere to the following guidelines to progress to the next phase of the interview:

GitHub Repository:

Create a public GitHub repository for your submission

Programming Language:

Use python programming language for the coding challenges.

Commented Questions:

Include the question as a comment at the top of your code file. Provide a clear and concise solution below the question in the code file.

Submission Link:

Share the correct GitHub repository link in your submission.

Submission Deadline:

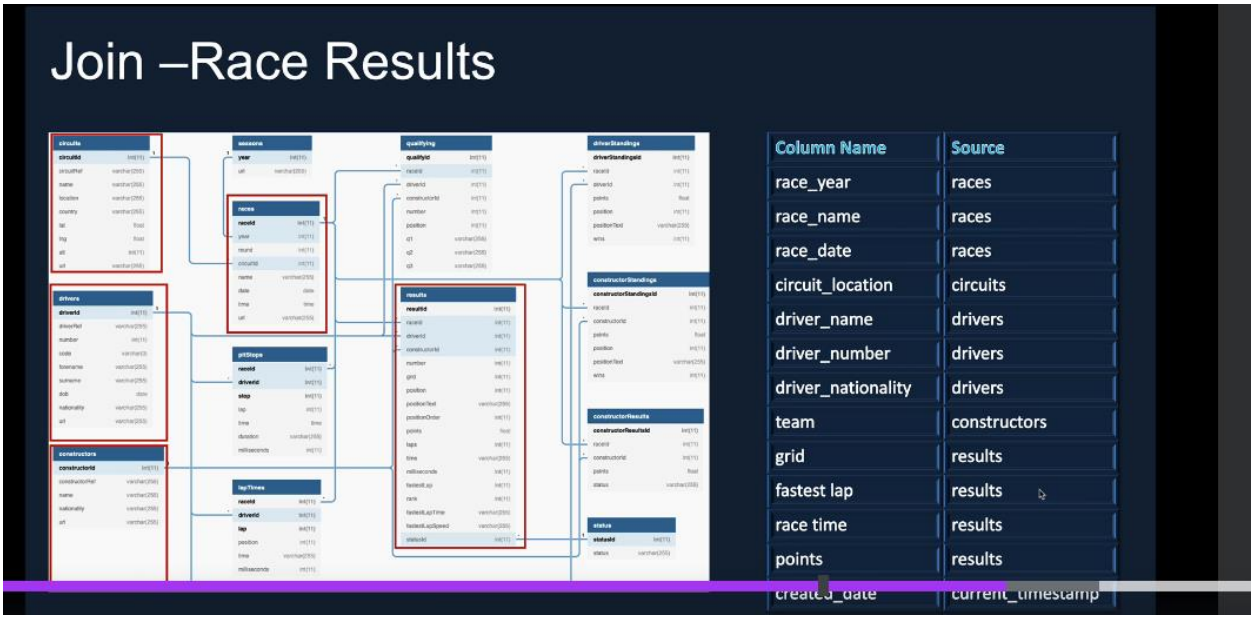
Submit your solution within a week of receiving the guidelines.

Avoid Copying code online or from ChatGPT:

By following these guidelines, you will help streamline the evaluation process and demonstrate your ability to provide clear and effective solutions.

Thank you, and we look forward to reviewing your submission.

1. Below is a database diagram



Write a query that will display the results below (Note: some columns might be renamed but use the column names above). It should only show 2020 data and order by driver points.

Table

	loc...	grid	position	fastest_lap	1.2 points	driver_name	race_name	time	year	team_name	date
1	Portimão	1	1	63	26	Lewis Hamilton	Portuguese Grand Prix	1:29:56.828	2020	Mercedes	2020-10-25
2	Sochi	3	1	51	26	Valtteri Bottas	Russian Grand Prix	1:34:00.364	2020	Mercedes	2020-09-27
3	Imola	2	1	63	26	Lewis Hamilton	Emilia Romagna Grand Prix	1:28:32.430	2020	Mercedes	2020-11-01
4	Budapest	1	1	70	26	Lewis Hamilton	Hungarian Grand Prix	1:36:12.473	2020	Mercedes	2020-07-19
5	Mugello	1	1	58	26	Lewis Hamilton	Tuscan Grand Prix	2:19:35.060	2020	Mercedes	2020-09-13
6	Sakhir	5	1	69	25	Sergio Pérez	Sakhir Grand Prix	1:31:15.114	2020	Racing Point	2020-12-06
7	Nürburg	2	1	58	25	Lewis Hamilton	Eifel Grand Prix	1:35:49.641	2020	Mercedes	2020-10-11
8	Spielburg	1	1	68	25	Lewis Hamilton	Styrian Grand Prix	1:22:50.683	2020	Mercedes	2020-07-12
9	Sakhir	1	1	38	25	Lewis Hamilton	Bahrain Grand Prix	2:59:47.515	2020	Mercedes	2020-11-29
10	Montmeló	1	1	63	25	Lewis Hamilton	Spanish Grand Prix	1:31:45.279	2020	Mercedes	2020-08-16
11	Monza	10	1	34	25	Pierre Gasly	Italian Grand Prix	1:47:06.056	2020	AlphaTauri	2020-09-06
12	Silverstone	4	1	46	25	Max Verstappen	70th Anniversary Grand P...	1:19:41.993	2020	Red Bull	2020-08-09
13	Spielburg	1	1	68	25	Valtteri Bottas	Austrian Grand Prix	1:30:55.739	2020	Mercedes	2020-07-05
14	Istanbul	6	1	56	25	Lewis Hamilton	Turkish Grand Prix	1:42:19.313	2020	Mercedes	2020-11-15
15	Silverstone	1	1	45	25	Lewis Hamilton	British Grand Prix	1:28:01.283	2020	Mercedes	2020-08-02

340 rows | 1.58 seconds runtime

2. Write a Python function that checks whether a word or phrase is palindrome or not.

   Note: A palindrome is word, phrase, or sequence that reads the same backward as forward, e.g., madam,kayak,racecar, or a phrase "nurses run"

3. Write a Python function to check whether a string is pangram or not. (Assume the string passed in does not have any punctuation)

   Note: Pangrams are words or sentences containing every letter of the alphabet at least once. For example: "The quick brown fox jumps over the lazy dog"

4. Write a program that takes an integer as input and returns an integer with reversed digit ordering.

   Examples:

   For input 500, the program should return 5.

   For input -56, the program should return -65.

   For input -90, the program should return -9.

   For input 91, the program should return 19.

5. Write a program that accepts a string as input, capitalizes the first letter of each word in the string, and then returns the result string.

   Examples:

   "hi"=> returns "Hi"

   "i love programming"=> returns "I Love Programming"

SUCCESS!