1. SQL Query Question

**Business case** **:**

Company has procedures that every request from any department has to issue a Purchase Requisition (PR) which contains all the required items to be purchased. Then the purchasing department will then collect PRs to convert into Purchase Order (PO). If requested items are assets, then the requester has to create a Capital Expenditure Request (CER) as well. Based on the SOP company, all items on CER and PO has to be tally.



**Database schema :**

| **table\_pr** |  | **table\_pr\_line** |
| --- | --- | --- |
| **🔑** id | **🔑** id |
| code | pr\_id |
| date | sequence |
|  | product\_id |
| quantity |

| **table\_po** |  | **table\_po\_line** |
| --- | --- | --- |
| **🔑** id | **🔑** id |
| pr\_id | po\_id |
| code | sequence |
| date | product\_id |
|  | quantity |

| **table\_cer** |  | **table\_cer\_line** |
| --- | --- | --- |
| **🔑** id | **🔑** id |
| pr\_id | cer\_id |
| code | sequence |
| date | product\_id |
|  | quantity |

**Question :**

1. Provide a query to check how many total PO and CER from existing PR.
2. Provide a query to check if total items between PO and CER are tally.
3. Provide a query to check if item PO and CER are the same. (same sequence and product\_id)
4. Javascript Question



**Question :**

1. What will the above code snippet output ?
2. Write a simple function (less than 160 characters) that returns a boolean indicating whether or not a string is a palindrome.
3. List out the different ways an HTML element can be accessed in a JavaScript code.
4. Programming Logic Question

Write the answer below with any programming language (other than Javascript) that you are familiar with.

*Note: A palindrome is a word, number, phrase, or other sequence of characters which reads the same backward as forward, for example “mom”, “dad”, “Top spot”, etc.*

**Question :**

1. Write a method which will remove any given character from a String.
2. Write code to check if a String is palindrome or not.
3. Write a function to find the first non repeated character of a given String.
4. Write a function to find the second highest number in an integer array.
5. Object Oriented Programming Question

All question codes below are written in Python Programming Language, please write the answer below with python or any programming language that you are familiar with.



**Question :**

Inherit Person objects support people with last name or with middle name such as: “James Bond”, “Robert Downey Junior”, “Zendaya Maree Stoermer Coleman”.



**Question :**

Inherit GoFood object to add convenience fee for Rp.3,000 (fixed amount) if transport fee is lower than Rp.10,000.