TEST MERN

JAVASCRIPT

- Provide an example of closure in JavaScript.
- What some function returns in js
- What 'every' function returns in is
- Create a function that takes an array of numbers and return "Boom!" if the digit 7 appears in the array. Otherwise, return "there is no 7 in the array".

```
sevenBoom([1, 2, 3, 4, 5, 6, 7]) → "Boom!"
// 7 contains the number seven.

sevenBoom([8, 6, 33, 100]) → "there is no 7 in the array"
// None of the items contain 7 within them.

sevenBoom([2, 55, 60, 97, 86]) → "Boom!"
// 97 contains the number seven.
```

const arr1 = [
 { "score": 0, "text": "pizza" },
 { "score": 0, "text": "burger" },
 { "score": 0, "text": "paratha" },
 { "score": 0, "text": "samosa" },
 { "score": 0, "text": "other" }
]
 const arr2 = ["pizza", "burger", "paratha", "samosa","paneer"];
 Result paneer

Return elements of arr2 which are not present in arr1.text

Write a function to check a string with balanced brackets.
 console.log(isBalanced("{[()]}")); // Output: true
 console.log(isBalanced("(()){[]")); // Output: true
 console.log(isBalanced("[{(())")); // Output: true
 console.log(isBalanced("((())")); // Output: true

React

Write a custom hook that takes an url and returns fetched data
 Url https://jsonplaceholder.typicode.com/posts (use axios get method)

ExpressJs

- Write mongoose query for "find all users who are over 25 age and are active"
- We want to find the total amount of orders for each user use aggregation for this.

SQL

- Find the average price of all products form products table
- Write Query to Join Products and Categories with the INNER JOIN keyword Below in sample table with small data

Let's look at a selection of the $\underline{\textbf{Products}}$ table:

ProductID	ProductName	CategoryID	Price
1	Chais	1	18
2	Chang	1	19
3	Aniseed Syrup	2	10

And a selection of the **Categories** table:

CategoryID	CategoryName	Description
1	Beverages	Soft drinks, coffees, teas, beers, and ales
2	Condiments	Sweet and savory sauces, relishes, spreads, and seasonings
3	Confections	Desserts, candies, and sweet breads

 Write query to Lists the employees that have registered more than 10 orders. Below in sample table with small data

Demo Database

Below is a selection from the "Orders" table in the Northwind sample database:

OrderID	CustomerID	EmployeeID	OrderDate	ShipperID
10248	90	5	1996-07-04	3
10249	81	6	1996-07-05	1
10250	34	4	1996-07-08	2

And a selection from the "Employees" table:

EmployeeID	LastName	FirstName	BirthDate	Photo	Notes
1	Davolio	Nancy	1968-12-08	EmpID1.pic	Education includes a BA
2	Fuller	Andrew	1952-02-19	EmpID2.pic	Andrew received his BTS
3	Leverling	Janet	1963-08-30	EmpID3.pic	Janet has a BS degree