

## **Web Developer Test Questions Codeland**

Name: Soumya Prasad Chandra

Date: 21 : 05 : 2025

### **Question 1: Shell Script to Analyze Log File**

```
LOGFILE="log.txt"
```

```
OUTPUTFILE="log_summary.txt"
```

```
INFO_COUNT=$(grep -c "INFO" "$LOGFILE")
```

```
TRACE_COUNT=$(grep -c "TRACE" "$LOGFILE")
```

```
WARNING_COUNT=$(grep -c "WARNING" "$LOGFILE")
```

```
echo "Log Summary:" > "$OUTPUTFILE"
```

```
echo "INFO: $INFO_COUNT" >> "$OUTPUTFILE"
```

```
echo "TRACE: $TRACE_COUNT" >> "$OUTPUTFILE"
```

```
echo "WARNING: $WARNING_COUNT" >> "$OUTPUTFILE"
```

```
cat "$OUTPUTFILE"
```

### **Question 2:**

#### **(i) Create a database named Admin.**

```
CREATE DATABASE MyCompany;
```

```
USE MyCompany;
```

#### **(ii) Create a Table called "Customers", with the following schema and data:**

```
CREATE TABLE Customers (
```

```
    CustomerID INT PRIMARY KEY,
```

```
    CustomerName VARCHAR(100),
```

```
    ContactName VARCHAR(100),
```

```
    Country VARCHAR(50)
```

```
);
```

```
-- Insert sample data
```

```
INSERT INTO Customers (CustomerID, CustomerName, ContactName, Country) VALUES
```

```
(1, 'Ana Trujillo Emparedados y helados', 'Ana', 'Mexico'),
```

```
(2, 'Antonio Moreno Taquería', 'Antonio', 'Mexico'),
```

```
(3, 'Around the Horn', 'Thomas', 'UK');
```

(iii) **Create a Table called “Orders”, with the following schema and data:**

```
CREATE TABLE Orders (  
    OrderID INT PRIMARY KEY,  
    CustomerID INT,  
    OrderDate DATE,  
    ShipperID INT,  
    FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID),  
    FOREIGN KEY (ShipperID) REFERENCES Shippers(ShipperID)  
);
```

(iv) **Create a Table called “Shippers”, with the following schema and data:**

```
CREATE TABLE Shippers (  
    ShipperID INT PRIMARY KEY,  
    ShipperName VARCHAR(100),  
    Phone VARCHAR(50)  
);
```

```
INSERT INTO Shippers (ShipperID, ShipperName, Phone) VALUES  
(1, 'Speedy Express', '123-456-7890'),  
(2, 'United Package', '234-567-8901'),  
(3, 'Federal Shipping', '345-678-9012');
```

```
INSERT INTO Orders (OrderID, CustomerID, OrderDate, ShipperID) VALUES  
(101, 1, '1997-01-12', 1),  
(102, 2, '1996-11-04', 2),  
(103, 1, '1998-07-22', 3),  
(104, 3, '1999-03-10', 2);
```

(v) **Write a query to get the list of all the orders placed by “Ana”, that falls after 1996, and its shipper details.**

```
SELECT  
    o.OrderID,  
    c.CustomerName,  
    o.OrderDate,  
    s.ShipperName,  
    s.Phone  
FROM  
    Orders o  
JOIN Customers c ON o.CustomerID = c.CustomerID  
JOIN Shippers s ON o.ShipperID = s.ShipperID  
WHERE  
    c.ContactName = 'Ana'  
    AND YEAR(o.OrderDate) > 1996;
```

### **Question 3: Create a Web Page**

**(i)**

Re-Create the following URL using HTML, CSS. <https://codeland.in/about-us/> Javascript interactions are not needed.

**Git Link:** <https://github.com/Soumya2024/Task-Link.git>