POWER BI TEST – QUESTION SHEET

File provided: sql_test.csv
Task: Import the data into Power BI and perform the following tasks.

SECTION A — Data Import & Modeling

1. Import the CSV into Power BI.
2. Convert `invoice_date` to a proper Date data type.
3. Create a new column to extract **Month** (MMM-YYYY).
4. Create a calculated column:

```
discount_percentage = discount_amount / invoice_rate * 100
```

SECTION B — Basic Visuals & Filters

5. Create a table visual listing all invoices from **January 2024**.
6. Show all invoices for **"C1007-Moftah Khair Trading Est"** using a filter or slicer.
7. Create a bar chart showing **total net_amount per customer**.
8. Highlight invoices where **discount_amount > 0** using conditional formatting.
9. Build a KPI showing the **earliest invoice_date**.
10. Create a donut chart showing **distribution of payment terms**.

SECTION C — DAX Measures

11. Create a measure:

```
Total Sales = SUM(net_amount)
```

12. Create a measure for:

```
Total Tax = SUM(tax_amount)
```

13. Create a measure:

```
Total Discount = SUM(discount_amount)
```

14. Create a DAX measure to calculate **average invoice_rate per item_code**.
15. Create a measure that counts invoices where `tax_amount = 0`.

SECTION D — Business Logic & Real-World Scenarios

16. Create a visual showing customers with **more than 5 invoices** in the last 60 days.
17. Create a calculated column `is_correct_amount` to check:

```
net_amount = taxable_amount + tax_amount - discount_amount
```

Show True/False.

18. Create a summary table (using Matrix):

- Total Net Amount
- Total Discount
- Total Tax
  Grouped by **customer_name**.

19. Create a visual showing items that **never received any discount**.
20. Create a bar chart of **net amount per item_code**, sorted descending.
21. Find and display the invoice with the **highest tax_amount** in 2024.
22. Create a monthly sales trend visual showing:

- total quantity
- total net_amount
- total discount_amount
