**1. Sales Report for Last Week**

**Scenario:**  
You are managing a retail store, and your manager wants a report of all sales made during the last week. Write a query to retrieve the order ID, customer name, product name, and order date for all orders placed within the last 7 days.

**Tables:**

* **Customers**
  + CustomerID (Primary Key)
  + Name
* **Orders**
  + OrderID (Primary Key)
  + CustomerID (Foreign Key to Customers)
  + Product
  + OrderDate

**2. Subscription Renewal Reminder**

**Scenario:**  
Your company provides monthly subscriptions to customers. You need to send renewal reminders 5 days before their subscription expires. Write a query to fetch the customer name, email, and subscription end date for all customers whose subscriptions expire in the next 5 days.

**Tables:**

* **Customers**
  + CustomerID (Primary Key)
  + Name
  + Email
* **Subscriptions**
  + SubscriptionID (Primary Key)
  + CustomerID (Foreign Key to Customers)
  + SubscriptionEndDate

**3. Employee Joining Anniversary**

**Scenario:**  
Your HR team wants to celebrate employees' work anniversaries. Write a query to find employees whose joining date matches today (but in any year).

**Tables:**

* **Employees**
  + EmployeeID (Primary Key)
  + Name
  + JoiningDate

**4. Calculate Project Deadlines**

**Scenario:**  
Your company tracks project deadlines. Write a query to list all projects that are overdue as of today, including the project name, deadline date, and the number of days overdue.

**Tables:**

* **Projects**
  + ProjectID (Primary Key)
  + ProjectName
  + DeadlineDate

**5. Identify Inactive Customers**

**Scenario:**  
Your business wants to identify customers who have not placed an order in the last 90 days. Write a query to fetch the customer name, last order date, and the number of inactive days for these customers.

**Tables:**

* **Customers**
  + CustomerID (Primary Key)
  + Name
* **Orders**
  + OrderID (Primary Key)
  + CustomerID (Foreign Key to Customers)
  + LastOrderDate

**6. Monthly Sales Summary**

**Scenario:**  
Your store tracks orders in the Orders table. Write a query to calculate the total sales amount for each month of the current year, grouped by month.

**Tables:**

* **Orders**
  + OrderID (Primary Key)
  + OrderDate
  + Amount

**7. Customer Birthday Offers**

**Scenario:**  
You want to send special offers to customers on their birthdays. Write a query to fetch the customer name, email, and date of birth for customers whose birthdays fall today.

**Tables:**

* **Customers**
  + CustomerID (Primary Key)
  + Name
  + Email
  + BirthDate

**8. Predict Delivery Dates**

**Scenario:**  
Your store offers delivery within 10 days of the order date. Write a query to calculate the delivery due date for all orders, showing the order ID, order date, and the calculated delivery due date.

**Tables:**

* **Orders**
  + OrderID (Primary Key)
  + OrderDate

**9. Active Membership Duration**

**Scenario:**  
Your fitness club tracks the membership duration of its customers. Write a query to calculate the number of days each customer has been an active member, using their membership start date.

**Tables:**

* **Members**
  + MemberID (Primary Key)
  + Name
  + MembershipStartDate

**10. Products Launched in the Current Quarter**

**Scenario:**  
Your company tracks product launch dates. Write a query to fetch the product name and launch date for all products launched in the current quarter.

**Tables:**

* **Products**
  + ProductID (Primary Key)
  + ProductName
  + LaunchDate

These questions assess practical applications of date and time functions such as GETDATE(), DATEADD(), DATEDIFF(), FORMAT(), YEAR(), MONTH(), and DAY() in real-world scenarios.