five problems, each with subparts and individual tables:

Problem 1: Employee Data

```
| ID |   Name   | Age | Gender |  City  |
|------|------------|-------|----------|----------|
| 1  |  Alice   |  25 | Female | New York|
| 2  |   Bob    |  30 |  Male  | London |
| 3  |  Charlie |  28 |  Male  | Paris  |
| 4  |   Dana   |  35 | Female | Berlin |
```

a) How many unique cities are represented in the table?

b) What is the average age of the individuals in the table?

c) How many males and females are there in the table?

d) Who is the oldest person in the table?

e) Which city has the highest number of individuals?

Problem 2: Student Scores

```
| ID |  Name  | Math_Score | Science_Score |
|------|----------|--------------|-----------------|
| 1  | Alice  |    85    |     90      |
| 2  |  Bob   |    75    |     85      |
| 3  | Charlie |    90    |     80      |
| 4  |  Dana  |    80    |     95      |
```

```

a) What is the average math score?

b) What is the highest science score?

c) Calculate the total score (sum of math and science scores) for each student.

d) Who has the highest total score?

e) What is the difference between the average math score and the average science score?

Problem 3: Product Sales

```

| ID | Product | Quantity | Price_per_Unit |

|------|-----------|------------|------------------|

| 1 | Apple | 100 | 2.5 |

| 2 | Banana | 150 | 1.8 |

| 3 | Orange | 120 | 3.0 |

| 4 | Mango | 80 | 2.7 |

```

a) What is the total revenue generated from each product (quantity * price_per_unit)?

b) Which product has the highest total revenue?

c) Calculate the average price per unit across all products.

d) What is the total quantity of all products sold?

e) How many different types of products are there?

Problem 4: Customer Feedback

```

| ID | Customer | Satisfaction_Score | Feedback |

|------|------------|----------------------|------------|

| 1 | Alice | 4 | Good |

| 2 | Bob | 3 | Average |

| 3 | Charlie | 5 | Excellent|

| 4 | Dana | 2 | Poor |

```

a) What is the average satisfaction score?

b) How many customers provided feedback classified as "Good"?

c) Calculate the percentage of customers who provided feedback classified as "Excellent".

d) Which customer provided the lowest satisfaction score?

e) What is the most common type of feedback received?

Problem 5: Employee Salaries

```

| ID | Name | Salary | Department |

|------|------------|----------|--------------|

| 1 | Alice | 50000 | Marketing |

| 2 | Bob | 60000 | Finance |

| 3 | Charlie | 55000 | HR |

| 4 | Dana | 65000 | Operations |

```

a) What is the average salary across all departments?

b) Which department has the highest average salary?

c) Calculate the total salary expense for each department.

d) Who is the highest-paid employee?
```

e) What is the difference between the salary of the highest-paid employee and the average salary?