Rules to validate a bank statement

1. Document Structure and Formatting:

a) The document must be titled "ACCOUNT STATEMENT" at the top.

b) The document should contain four main sections: "YOUR DETAILS", "Your Account Balance", "Your account valuation", and "Your insurance details".

c) Each section should have a distinct header with a gray background.

d) Consistent font type, size, and style should be used throughout the document.

e) Headers should be distinguished from body text (e.g., bold or larger font).

f) The document should fit on a single page if possible.

g) Margins should be consistent throughout the document.

2. Personal Information Validation:

a) Customer's full name must be present.

b) Complete mailing address should include street, city, state, and ZIP code.

c) Account Number must be a 9-digit numerical string without separators.

d) Account Name should match the customer's name.

e) Email Address must be provided or stated as "Not Recorded".

f) ZIP code should be in the correct format for the country (e.g., 5 digits for USA).

g) Phone number, if provided, should be in a standard format.

3. Date and Period Validation:

a) Statement Period must be in the format "DD MMM YYYY to DD MMM YYYY".

b) The start date of the Statement Period should precede the end date.

c) All dates mentioned in the document should fall within or match the stated Statement Period.

d) The year in the Statement Period should be the current or previous year.

4. Account Balance Validation:

a) Opening and closing account balances must be displayed with their respective dates.

b) Balances should be in currency format with two decimal places.

c) The closing balance date should match the end date of the Statement Period.

d) The closing balance should logically follow from the opening balance and account activity.

5. Account Valuation Table Validation:

a) The table must include columns for: Investment option name, Option code, Units, Unit Price, Value, and Percentage.

b) Option codes should be 3-digit numbers.

c) Units should be displayed to 4 decimal places.

d) Unit Prices and Values should be in currency format with two decimal places.

e) Percentages should be whole numbers followed by % symbol.

f) The sum of percentages must equal exactly 100%.

g) The total "Account value" must match the closing account balance.

h) Each row's Value should equal the product of its Units and Unit Price.

i) At least one investment option must be listed.

6. Insurance Details Validation:

a) The section must include Benefit Type, Insurance cover amount, and Benefit amount.

b) Insurance cover and Benefit amounts should be in currency format.

c) At least one type of insurance coverage should be listed.

d) Benefit amount should not exceed the Insurance cover amount.

e) The terms used (e.g., "Death of Terminal illness") should be consistent with industry standards.

7. Numerical and Currency Formatting:

a) All currency values should use the same symbol (e.g., "$") consistently.

b) Thousands separators (e.g., commas) should be used for large numbers.

c) Decimal places should be consistent: 2 for currency, 4 for units, 0 for percentages.

d) Large numbers should be aligned properly in their respective columns.

8. Logical Consistency Checks:

a) The closing balance should be the sum of the opening balance and any account activity.

b) The total value in the account valuation table should equal the closing balance.

c) If multiple insurance types are listed, their cover amounts and benefit amounts should be logically consistent.

9. Completeness Checks:

a) No section should be empty or partially filled.

b) If any standard field is not applicable, it should be marked as "N/A" or "Not Applicable" rather than left blank.

10. Security and Privacy:

a) The document should not display full account numbers (e.g., show only last 4 digits).

b) Sensitive personal information should be partially obscured if necessary.

c) A confidentiality statement should be included at the bottom of the document.

11. Additional Information:

a) A legend or glossary explaining key terms should be included if space permits.

b) Contact information for customer support should be provided.

c) Any disclaimers or legal notices should be clearly stated.

These categorized and expanded rules provide a comprehensive framework for validating the structure, content, and logical consistency of the account statement, while also considering security, privacy, and additional helpful information for the account holder.