**1. Selecting Data**

* **1.1 Retrieving All Data:**

SELECT \* FROM Expenses;

* **1.2 Selecting Specific Columns:**

SELECT date, category, amount

FROM Expenses;

* **1.3 Filtering by Date Range:**

SELECT date, category, amount

FROM Expenses

WHERE date BETWEEN '2021-01-01' AND '2024-05-10';

**2. Filtering Data**

* **2.1 Filtering By Category:**

SELECT \*

FROM Expenses

WHERE category = 'Entertainment';

* **2.2 Filtering with Comparison Operators:**

SELECT \*

FROM Expenses

WHERE amount > 80.00;

* **2.3 Combining Filters (AND):**

SELECT \*

FROM Expenses

WHERE amount > 75.00 AND category = 'Food';

* **2.4 Combining Filters (OR):**

SELECT \*

FROM Expenses

WHERE category = 'Transportation' OR category = 'Groceries';

* **2.5 Filtering with NOT:**

SELECT \*

FROM expenses

WHERE category NOT LIKE '%Entertainment';

**3. Sorting Data**

* **3.1 Sorting By Amount:**

SELECT \*

FROM Expenses

ORDER BY amount DESC;

* **3.2 Sorting by Date and Category:**

SELECT \*

FROM Expenses

ORDER BY date DESC, category ASC;

**4. Creating and Modifying Tables**

**4.1 Creating Users and Spending Habits Tables:**

SQL

CREATE TABLE Users (

user\_id INT PRIMARY KEY,

username VARCHAR(50) UNIQUE,

email VARCHAR(100) UNIQUE,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

CREATE TABLE SpendingHabits (

habit\_id INT PRIMARY KEY,

user\_id INT,

habit\_name VARCHAR(100),

habit\_description TEXT,

start\_date DATE,

end\_date DATE,

FOREIGN KEY (user\_id) REFERENCES Users(user\_id)

);

**4.1 Modifying Spending Habits Table:**

ALTER TABLE SpendingHabits

ADD COLUMN average\_monthly\_spending DECIMAL(10, 2);

**4.2 Removing a Table:**

DROP TABLE SpendingHabits;