## Part 1: Retrieving Data with SELECT

**1.1** Retrieving All Expenses

SELECT \* FROM Expenses;

**1.2** Specific Columns:

SELECT date, category, amount

FROM Expenses;

**1.3** Filtering by Date Range

SELECT \*

FROM Expenses

WHERE date BETWEEN '2021-01-01' AND '2024-12-15';

## Part 2: Filtering with WHERE Clause

2.1 Filtering by Category:

SELECT \*

FROM Expenses

WHERE category = 'Entertainment';

2.2 Filtering with Comparison Operators:

SELECT \*

FROM Expenses

WHERE amount > 50;

2.3 Combining Filters (AND):

**SELECT** \*

FROM Expenses

WHERE amount > 75

```
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 <> 'Rent';
Part 3: Sorting Retrieved 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;
Part 4: Database Upgrade
4.1 Write SQL commands to achieve the following:
CREATE TABLE Income (
  income id INT PRIMARY KEY AUTO INCREMENT,
  amount DECIMAL(10,2) NOT NULL,
  date DATE NOT NULL,
  source VARCHAR(50) NOT NULL
);
```

4.2 To track the income category "source" (e.g., "Salary," "Freelance Work").

ALTER TABLE Income

ADD category VARCHAR(50);

4.3 Remove source.

ALTER TABLE Income

DROP COLUMN source;

4.4 Remove Income Table

DROP TABLE Income;