PART 1: RETRIEVING DATA WITH SELECT(30 MINUTES)

Part 1.1:

SELECT \*

FROM Expenses;

Part 1.2:

SELECT date, category, amount

FROM Expenses;

Part 1.3:

SELECT date, category, amount

FROM Expenses

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

Part 2: FILTERING WITH WHERE CLAUSE (45 MINUTES)

Part 2.1:

SELECT date, category, amount

FROM Expenses

WHERE category = 'Entertainment';

Part 2.2:

SELECT date, category, amount

FROM Expenses

WHERE amount > 50.00;

Part 2.3:

SELECT date, category, amount

FROM Expenses

WHERE amount > 75.00 AND category = 'Food';

Part 2.4:

SELECT date, category, amount

FROM Expenses

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

Part 2.5:

SELECT date, category, amount

FROM Expenses

WHERE NOT category = 'Rent';

Part 3: Sorting Retrieved Data

Part 3.1:

SELECT date, category, amount

FROM Expenses

ORDER BY amount DESC;

Part 3.2:

SELECT date, category, amount

FROM Expenses

ORDER BY date DESC, category ASC;

Part 4: Database Upgrade

Part 4.1:

CREATE TABLE IF NOT EXISTS Income (

income\_id INT PRIMARY KEY AUTO\_INCREMENT,

amount DECIMAL(10,2) NOT NULL,

date DATE NOT NULL,

source VARCHAR(50) NOT NULL);

Part 4.2:

ALTER TABLE Income

ADD COLUMN category VARCHAR(50);

Part 4.3:

ALTER TABLE Income

DROP COLUMN source;

DROP TABLE IF EXISTS Income;