Week 2: Essential Data Retrieval & Filtering (Focus on Expense Tracker Data)

Solutions

-- Part 1 Retrieving Data with SELECT

-- Part 1.1

SELECT \* FROM Expenses;

-- Part 1.2

SELECT amount FROM Expenses;

-- Part 1.3

SELECT amount FROM Expenses

WHERE date >= '2020-09-05' AND

date <= '2024-02-17'

;

-- Part 2 Filtering with WHERE Clause

-- Part 2.1

SELECT \* FROM Expenses

WHERE category = 'Entertainment';

-- Part 2.2

SELECT \* FROM Expenses

WHERE amount >50;

-- Part 2.3

SELECT \* FROM Expenses

WHERE amount >75 AND category = 'Food';

-- Part 2.4

SELECT \* FROM Expenses

WHERE category = 'Transportation' OR 'Groceries';

-- Part 2.5

SELECT amount FROM Expenses

WHERE NOT category = 'Rent';

-- Part 3 Sorting Retrieved Data

-- Part 3.1

SELECT \* FROM Expenses

ORDER BY amount DESC;

-- Part 3.2

SELECT \* FROM Expenses

ORDER BY date DESC, category ASC;

-- Part 4 Database Upgrade

-- Part 4.1

USE expense\_tracker;

CREATE TABLE Income ( income\_id INT NOT NULL,

amount DECIMAL(10,2) NOT NULL,

date DATE NOT NULL,

source VARCHAR(50) NOT NULL

);

-- Part 4.2

SELECT \* FROM Income;

ALTER TABLE Income ADD category VARCHAR(50);

-- Part 4.3

ALTER TABLE Income DROP COLUMN source;

DROP TABLE Income;