**Part 1: Retrieving Data with SELECT (30 minutes)**

**1.1 Retrieving All Expenses:**

sql

Copy code

SELECT \* FROM Expenses;

**1.2 Specific Columns:**

sql

Copy code

SELECT date, category, amount FROM Expenses;

**1.3 Filtering by Date Range:**

sql

Copy code

SELECT \* FROM Expenses

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

**Part 2: Filtering with WHERE Clause (45 minutes)**

**2.1 Filtering by Category:**

sql

Copy code

SELECT \* FROM Expenses

WHERE category = 'Entertainment';

**2.2 Filtering with Comparison Operators:**

sql

Copy code

SELECT \* FROM Expenses

WHERE amount > 50;

**2.3 Combining Filters (AND):**

sql

Copy code

SELECT \* FROM Expenses

WHERE amount > 75 AND category = 'Food';

**2.4 Combining Filters (OR):**

sql

Copy code

SELECT \* FROM Expenses

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

**2.5 Filtering with NOT:**

sql

Copy code

SELECT \* FROM Expenses

WHERE category <> 'Rent';

**Part 3: Sorting Retrieved Data (45 minutes)**

**3.1 Sorting by Amount:**

sql

Copy code

SELECT \* FROM Expenses

ORDER BY amount DESC;

**3.2 Sorting by Date and Category:**

sql

Copy code

SELECT \* FROM Expenses

ORDER BY date DESC, category ASC;

**Part 4: Database Upgrade**

**4.1 Create the "Income" Table:**

sql

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CREATE TABLE Income (

income\_id INT AUTO\_INCREMENT PRIMARY KEY,

amount DECIMAL(10,2) NOT NULL,

date DATE NOT NULL,

source VARCHAR(50) NOT NULL

);

**4.2 Add the "category" Column:**

sql

Copy code

ALTER TABLE Income

ADD COLUMN category VARCHAR(50);

**4.3 Remove the "source" Column:**

sql

Copy code

ALTER TABLE Income

DROP COLUMN source;

**4.4 Drop the "Income" Table:**

sql

Copy code

DROP TABLE Income;