SOLUTION TO WEEK 2 ASSIGNMENT

PART 1: Retrieving Data with SELECT

CREATE DATABASE expense\_Tracker1;

USE expense\_Tracker1;

CREATE TABLE Expenses ( Expense\_Category VARCHAR(50),

Amount DECIMAL(10,2),

Date DATE

);

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SELECT \* FROM Expenses;

SELECT Expense\_Category, Amount

FROM Expenses;

SELECT \* FROM myexpenses1\_cleaned;

SELECT \* FROM myexpenses1\_cleaned

WHERE Date >='2023-01-01' AND Date <='2023-01-03';

**PART 2: Filtering with WHERE Clause**

SELECT \*

FROM myexpenses1\_cleaned

WHERE category = 'Entertainment';

SELECT \* FROM myexpenses1\_cleaned

WHERE amount > 70;

SELECT \* FROM myexpenses1\_cleaned

Where category like 'friend&'

AND Amount > 30;

SELECT \*

FROM myexpenses1\_cleaned

WHERE category = 'friend' OR category = 'juice';

SELECT \*

FROM myexpenses1\_cleaned

WHERE category !='friend';

**PART 3: Sorting Retrieved Data**

Select all expenses sorted by amount in descending order

SELECT \*

FROM myexpenses1\_cleaned

ORDER BY amount DESC;

SELECT \*

FROM myexpenses1\_cleaned

ORDER BY date DESC, amount ASC;

**PART 4: Database Upgrade**

CREATE TABLE income (

income\_id INT PRIMARY KEY AUTO\_INCREMENT,

amount DECIMAL(10,2),

date DATE,

source VARCHAR(50)

);

ALTER TABLE income

ADD COLUMN category VARCHAR(50);

ALTER TABLE income

DROP COLUMN source;

DROP TABLE income;