Part 1 Retrieving Data with SELECT

Question 1.1 SELECT * FROM expenses;

Question 1.2

SELECT category FROM expenses; SELECT category , amount FROM expenses;

Question 1.3

SELECT * FROM expenses
WHERE date >= '2021-01-01' AND date <= '2024-12-15';

Part 2: Filtering with WHERE Clause

Question 2.1

SELECT * FROM expenses
WHERE Category = 'Entertainment';
There is no category called Entertainment

Question 2.2

This command returns the column item and Amount and filters columns with amount > 50 SELECT Item, Amount FROM expenses WHERE Amount > 50;

SELECT *
FROM expenses
WHERE Amount > 50

Question 2.3

WHERE Category <> "Friend"

```
There is not category called Food so i used the category name 'Alone'
SELECT *
FROM expenses
WHERE Category = 'Alone' AND Amount > 75;
SELECT item ,amount
FROM expense
WHERE Category = "Food" AND amount > 75;
Question 2.4
SELECT *
FROM expenses
WHERE Category = 'Alone' OR Category = 'Friend';
Question 2.5
SELECT *
FROM expenses
WHERE NOT (Category = 'Alone');
SELECT *
FROM expenses
WHERE Category != "Alone";
SELECT *
FROM expense
```

Part 3: Sorting Retrieved Data

Question 3.1

```
SELECT *
FROM expenses
order by Amount desc;
Question 3.2

SELECT *
FROM expenses
ORDER BY date DESC , Category ASC ;
```

Part 4: Database Upgrade

Question 4.1

```
CREATE TABLE Income(
income_id INT PRIMARY KEY auto_increment,
Amout DECIMAL(10,2) NOT NULL,
date_Created DATE NOT NULL,
Sourced VARCHAR(50) NOT NULL
);
```

*the Income table was created in a different database, so i specified the database.

```
CREATE TABLE expense_tracker.Income( income_id INT PRIMARY KEY auto_increment, Amout DECIMAL(10,2) NOT NULL, date_Created DATE NOT NULL, Sourced VARCHAR(50) NOT NULL);
```

Question 4.2

ALTER TABLE Income ADD Category VARCHAR(50);

Question 4.3

ALTER TABLE income DROP COLUMN Sourced;

Question 4.4

DROP TABLE income;