

PART 1.

1.1 Retrieving all Expenses

```
SELECT * FROM expense_tracker.Expenses;
```

1.2.Retrieving specific columns.

```
SELECT expense_id,amount,date  
FROM Expenses;
```

1.3.Filtering by data range

```
SELECT *  
FROM Expenses  
WHERE date BETWEEN "2021-01-01" AND "2021-06-01";
```

PART 2. FILTERING WITH WHERE CLAUSE.

2.1 Filtering by category.

```
SELECT *  
FROM Expenses  
WHERE category= "Groceries";
```

2.2 Filtering by comparison operators.

```
SELECT *  
FROM Expenses  
WHERE amount >50;
```

2.3 Combining filters.(AND)

```
SELECT * FROM Expenses  
WHERE amount >75 AND category ="Other";
```

2.4 Combining filters (OR)

```
SELECT * FROM Expenses  
WHERE category="Transportation" OR category="Groceries"
```

2.5 Filtering with NOT

```
SELECT * FROM Expenses  
WHERE category != "Groceries"
```

PART 3: SORTING RETRIEVED DATA

3.1Sorting by Amount

```
SELECT * FROM Expenses  
ORDER BY amount DESC;
```

3.2 Sorting by Data and Category

```
SELECT * FROM Expenses  
ORDER BY date DESC ,category ASC ;
```

4. DATABASE UPGRADE

4.1 Create a new table

```
CREATE TABLE Income(  
income_id INT PRIMARY KEY AUTO_INCREMENT,  
amount DECIMAL(10,2) NOT NULL,  
date DATE NOT NULL,  
source VARCHAR(50) NOT NULL  
);
```

4.2 Create new column in the table

```
ALTER TABLE Income  
ADD COLUMN category VARCHAR(50);
```

4.3. Remove source column

```
ALTER TABLE Income  
DROP COLUMN source;
```

```
DROP TABLE Income;
```