

-- PART 1

```
-- PART 1
use expense_tracker;

-- view/retrieving the entire table
SELECT *
from Expenses ;

-- display specific columns

SELECT amount,category
FROM Expenses ;

-- filtering by date range

SELECT *
FROM Expenses
WHERE `date` >= '2023-03-06' and `date` <= '2024-03-01';
```

-- PART 2

```
-- PART 2
-- find all expenses belonging to a specific category
SELECT *
FROM Expenses
WHERE category ='clothing';

-- filtering expenses with a certain amount threshold
SELECT *
FROM Expenses
WHERE amount >= 65;

-- filtering expenses given two conditions using and operator
SELECT *
FROM Expenses
WHERE amount >= 50 and `date` >= '2023-12-30';

-- combining filters using or operator
SELECT *
FROM Expenses
WHERE amount <= 60 OR expense_id >=5;

-- filtering expenses with exceptions
SELECT *
FROM Expenses
WHERE category != 'clothing';
```

-- PART 3

```
-- PART 3
-- sorting expenses based on amount
SELECT *
FROM Expenses
ORDER BY amount DESC;

-- sorting the Expenses by date and category
SELECT *
FROM Expenses
ORDER BY `date` DESC, category ASC;
```

-- part4

```
use expense_tracker;

-- create your schema for the income database
CREATE table income(
    income_id INT primary key auto_increment,
    amount decimal(10,2) not null,
    date Date not null,
    source varchar(50)
);

-- insert data to your table
INSERT INTO income (amount, date, source)
values
(20, '2024-01-05', 'salary'),
(98, '2024-02-12', 'side hustle'),
(76, '2024-04-25', 'grant'),
(99, '2024-05-10', 'loan');

-- check for all tables in the database
show tables;

-- view the contents of the income table

SELECT *
from income;

-- adding a column named category
ALTER Table income
ADD category varchar(50);
-- dropping the column named category
ALTER table income
drop column category;
```