

WEEK 2: DATABASE ASSIGNMENT

-- Select Database

```
-- USE expense_tracker;
```

-- Part 1: Retrieving Data with SELECT

```
-- SELECT * FROM expenses;
```

```
-- SELECT date, category FROM expenses;
```

```
-- SELECT * FROM expenses
```

```
-- WHERE date >= '2021-01-01' AND '2024-12-15';
```

-- Part 2: Filtering with WHERE Clause

```
-- SELECT * FROM expenses
```

```
-- WHERE category LIKE 'Entertainment';
```

```
-- SELECT * FROM expenses
```

```
-- WHERE amount >= 50;
```

```
-- SELECT * FROM expenses
```

```
-- WHERE category LIKE 'Food' AND amount > 75;
```

```
-- SELECT * FROM expenses
```

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

```
-- SELECT * FROM expenses
```

```
-- WHERE category NOT IN ('Rent');
```

-- Part 3: Sorting Retrieved Data

```
-- SELECT * FROM expenses
```

```
-- ORDER BY amount DESC;
```

```
-- SELECT * FROM expenses
```

```
-- ORDER BY category, date DESC;
```

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-- Part 4: Database Upgrade

```
-- CREATE TABLE Income (  
-- income_id INT,  
-- amount DECIMAL (10,2),  
-- date DATE,  
-- source VARCHAR (50)  
-- );  
-- ALTER TABLE income  
-- ADD category VARCHAR (50);  
-- DROP TABLE income;
```