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Coin Change II Solution

In which order sql query is executed, who has join, where, orderby and my have other attributes, explain with example

In SQL, the order of execution for a query that includes various clauses such as `JOIN`, `WHERE`, `ORDER BY`, and others follows a specific logical sequence, which is different from the written order. The typical order of execution is as follows:

1. **FROM** (including `JOIN`)
2. **WHERE**
3. **GROUP BY**
4. **HAVING**
5. **SELECT**
6. **ORDER BY**
7. **LIMIT/OFFSET**



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Here's a detailed explanation of each step with an example query:

Example Query

```
sql
SELECT department, COUNT(*) as employee_count
FROM employees
JOIN departments ON employees.department_id = departments.id
WHERE employees.salary > 50000
GROUP BY department
HAVING COUNT(*) > 5
ORDER BY employee_count DESC
LIMIT 10;
```

Execution Order

1. FROM (including JOIN):

- The `FROM` clause identifies the table to be queried.
- Any `JOIN` operations to combine tables occur in this step.
- Example: Combine `employees` and `departments` tables based on the `department_id`.

```
sql
FROM employees
JOIN departments ON employees.department_id = departments.id
```

2. WHERE:

- The `WHERE` clause filters the rows based on specified conditions.
- Example: Select rows where `employees.salary` is greater than 50,000.

```
sql
WHERE employees.salary > 50000
```

3. GROUP BY:

- The `GROUP BY` clause groups the rows that have the same values in specified columns into aggregated data.
- Example: Group rows by `department`.

```
sql
GROUP BY department
```

4. HAVING:

- The `HAVING` clause filters groups based on aggregate functions.
- Example: Filter groups where the count of employees is greater than 5.

```
sql Copy code  
  
HAVING COUNT(*) > 5
```

5. SELECT:

- The `SELECT` clause specifies the columns to be returned in the result set.
- Example: Select the `department` and the count of employees as `employee_count`.

```
sql Copy code  
  
SELECT department, COUNT(*) as employee_count
```

6. ORDER BY:


- The `ORDER BY` clause sorts the result set based on one or more columns.
- Example: Order the results by `employee_count` in descending order.

```
sql Copy code  
  
ORDER BY employee_count DESC
```

7. **LIMIT/OFF

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