Temporary Tables
Lecture 12

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Temporary Tables

- A temporary table is like an ordinary table, except that it will exist only for the duration of the session.
- When the session is terminated, the temporary table is deleted.

Temporary Tables

Temporary Tables

```
CREATE TEMPORARY TABLE table_name (schema);
CREATE TEMPORARY TABLE table_name AS (SELECT ...);
CREATE TEMPORARY TABLE table_name LIKE old_table;
```

- There are several ways to create a temporary table.

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  - To avoid repeatedly creating complex joins, especially within a query.
  - To create a smaller, more efficient subtables when the full table is not needed.

Example

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```
CREATE TEMPORARY TABLE emp_proj AS
(SELECT fname, lname, ssn, salary, proj_name, proj);

SELECT proj_name, AVG(salary)
FROM emp_proj GROUP BY proj;

SELECT proj_name, COUNT(*)
FROM emp_proj GROUP BY proj;
```

- It is simpler and more efficient to query the `emp_proj` table than to query the join every time.

Example

- Find, for each project, the average number of dependents among the employees working on that project.