

Homework 2.2

View and Stored Procedure:

In simple words, VIEW can only read data while procedure can alter the data.

A View represents a **virtual** table. You can join multiple tables in a view and use the View to present the data as if the data were coming from a single table.

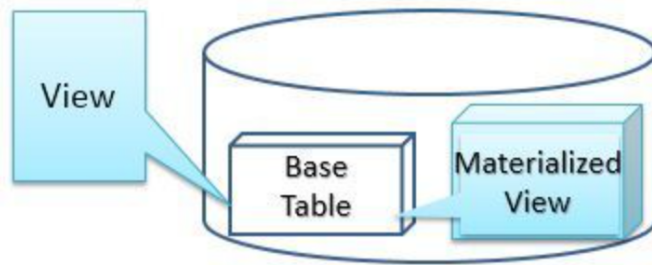
A Stored Procedure is **precompiled database query** that improves the security, efficiency, and usability of database client/server applications. A stored procedure uses parameters to do a function whether it is updating and inserting data or returning single values or data sets.

S.No.	View	Stored Procedure
1	Does not accepts parameters	Accept parameters
2	Can be used as a building block in large query.	Can not be used as a building block in large query.
3	Can contain only one single Select query.	Can contain several statement like if, else, loop etc.
4	Can not perform modification to any table.	Can perform modification to one or several tables.
5	Can be used (sometimes) as the target for Insert, update, delete queries.	Can not be used as the target for Insert, update, delete queries.

Can view execute stored procedure?

You cannot call a stored procedure from inside a view. However, you can make views call other views or table-valued user-defined functions.

Materialized View and View:



Views:

Views are virtual only and **run the query definition each time they are accessed.**

The upside of a view is that it will always return the latest data to you.

The downside of a view is that its performance depends on how good a select statement the view is based on. If the select statement used by the view joins many tables, or uses joins based on non-indexed columns, the view could perform poorly.

Materialized views:

Materialized views are **disk based** and are updated periodically based upon the query definition.

The upside of this is that when you query a materialized view, you are querying a table, which may also be indexed.

In addition, because all the joins have been resolved at materialized view refresh time, you pay the price of the join once (or as often as you refresh your materialized view), rather than each time you select from the materialized view.

The downside though is that the data you get back from the materialized view is only as up to date as the last time the materialized view has been refreshed.

Leqian Cai
Emmacai507@gmail.com

References:

<https://medium.com/codestorm/stored-procedure-vs-view-e4adb6f9e910>

<https://stackoverflow.com/questions/93539/what-is-the-difference-between-views-and-materialized-views-in-oracle/93579>