

Screencast 5-2

Materialized views

Database – cars2

Materialized views

CREATE MATERIALIZED VIEW ... AS SELECT ...

The data returned by such view is persisted in the database. Data reloading is done by calling 'refresh' instruction. Standard view, on the contrary, evaluates its contents when accessed.

It is possible to create a materialized view without filling it. To achieve this result, append 'with no data' instruction at the end of definition.

Materialized view vs standard view

Create two views to display reservations in C and D classes:

- * v_cd - standard view
- * mv_cd - materialized view

Query:

```
select res.* from res join car on car.cid = res.cid
where car.clsid in ('C', 'D')
```

Standard view:

```
create view v_cd as
select res.* from res join car on car.cid = res.cid
where car.clsid in ('C', 'D')
```

Empty materialized view:

```
create materialized view mv_cd as
select res.* from res join car on car.cid = res.cid
where car.clsid in ('C', 'D')
with no data
```

```
select * from v_cd
```

```
select * from mv_cd
```

Refreshing data in materialized view

refresh materialized view mv_cd

```
select * from v_cd
```

```
select * from mv_cd
```