#### (a-1) An example of SPView

CREATE VIEW SPView AS
SELECT sessionId, videoId, responseTime
FROM Log
WHERE userAgent LIKE "%Mozilla%"

#### (a-2) Update Patterns for the SPView

|            | sessionId | videold | responseTime |
|------------|-----------|---------|--------------|
| Insert 1:  | 1         | 214     | 18 ms        |
| Insert r2: | 2         | 2056    | 15 ms        |

### (b-1) An example of FJView

CREATE VIEW FJView AS
SELECT sessionId, videoId,
responseTime, duration
FROM Log, Video
WHERE Log.videoId = Video.videoId

#### (b-2) Update Patterns for the FJView

|                         | sessionId | videold | response<br>Time | duration |
|-------------------------|-----------|---------|------------------|----------|
| Insert r <sub>1</sub> : | 45        | 567     | 12 ms            | 0:34:23  |
| Insert r2:              | 5566      | 20      | 20 ms            | 1:00:08  |

## (c-1) An example of AggView

CREATE VIEW AggView AS
SELECT videold, max(responseTime) as
maxResponseTime
FROM Log
GROUP BY videold

# (c-2) Update Patterns for the AggView

|        |             | videold | maxResponse<br>Time (old) | maxResponse<br>Time (new) |
|--------|-------------|---------|---------------------------|---------------------------|
| Insert | <i>r</i> 1: | 5       | NULL                      | 15690 ms                  |
| Update | <b>r</b> 2: | 1       | 1298 ms                   | 6298 ms                   |
| Keep   | <b>r</b> 3: | 65      | 798 ms                    | 798 ms                    |