

**Question:**

What are the top 10 checked out and returned dvds in 2011?

With this question as a starting point I want to explore what the most checked out dvds are. This will probably be expanded upon to explore other "top 10" results like books, vhs, cds, magazines, and other itemtypes or groups of things.

**Query:**

```
SELECT
    title, itemtype, count(*)
FROM transactions2011
WHERE
    year(ckoutDateTime) = '2011' and
    year(ckinDateTime) = '2011' and
    itemtype like "%dvd%"
GROUP BY title
ORDER BY count(*) DESC
LIMIT 10;
```

**Explanation:**

SELECT  
title - pull the item title data  
itemtype - pull the itemtype data  
count(\*) - total number of items that meet search criteria

FROM  
transactions2011 - the table we are pulling data from

WHERE  
year(ckoutDateTime) = '2011' and - make sure the check out year is 2011  
year(ckinDateTime) = '2011' and - make sure the check in year is 2011  
itemtype like "%dvd%" - make sure the itemtype contains dvd in it

GROUP BY  
title - group the results by the item titles to show only distinct results

ORDER BY  
count(\*) DESC - order the results by the total number of items in each group

LIMIT  
10; - limit the output results to only show the top 10

**Processing Time:**

It takes about 71.6 ms to run the query and display the results. If you are to display all the items instead of limiting it to 10 it takes 13.9 seconds.

**Comment & Analysis:**

If the query is run correctly you should see something like this:

Salt acdvd 3283  
kids are all right acdvd 3120

Inception	acdvd	3112
social network	acdvd	3080
Despicable me	jcdvd	3038
American	acdvd	2980
Red	acdvd	2963
Winters bone	acdvd	2916
town	acdvd	2891
Alice in Wonderland	jcdvd	2885

What this can tell us is that people really liked the movie Salt. It also shows us that the majority of dvds checked out and watched are by adults most likely. There are only two juvenile circulating dvds in the list, "Despicable me" and "Alice in Wonderland". I suppose Alice in Wonderland is also the latest release by Tim Burton and not the old animated version. If this formula is applied to other itemtypes or groups of dewey categories you can get some interesting results as you dig down further.