

SQL REPORT TIPS & TRICKS

FOR LEGACY SYSTEMS AND
OTHER NON-TRADITIONAL USES

> **DALE TREXEL**

WEB MANAGER
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SQL REPORT VS. SCRIPTING

> MACROS
FOR EXAMPLE

Benefits of SQL Reports?

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SQL REPORT VS. SCRIPTING

> MACROS
FOR EXAMPLE

Benefits of SQL Reports:

- No shell/server access required
- No need to modify config files or restart services
- Separate computation from display
- Quicker to mock-up new ideas

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TODAY'S TIPS & TRICKS

- **Date/Time functions**
- **Format the same data multiple ways**
- **Create template variables for novel if/then conditions**
- **Add “OR” condition to your template!**
- **Combine datasets with Union**

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TIME & DATE FUNCTIONS

BASIC TIME FUNCTIONS

SQL Query Area

```
1 SELECT
2 CURDATE() AS today,
3 CURTIME() AS time_now,
4 NOW() AS date_time,
5 UNIX_TIMESTAMP() AS unix_time
6 ;
```

today	time_now	date_time	unix_time
2010-08-19	16:55:24	2010-08-19 16:55:24	1282254924

MySQL
QUERY
BROWSER



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TIME & DATE FUNCTIONS

DATE FORMAT FUNCTION

SQL Query Area

```
1 SELECT
2   CURDATE() AS today,
3   CURTIME() AS time_now,
4   NOW() AS date_time,
5   UNIX_TIMESTAMP() AS unix_time,
6   DATE_FORMAT(NOW(), '%W, %b. %D, %Y') AS formatted_date
7 ;
```

today	time_now	date_time	unix_time	formatted_date
2010-08-19	16:57:34	2010-08-19 16:57:34	1282255054	Thursday, Aug. 19th, 2010

AS IS YOUR FRIEND!



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TIME & DATE FUNCTIONS

DATE COMPUTATIONS

```
SQL Query Area
1 SELECT
2   DATEDIFF(NOW(), CONCAT(YEAR(NOW()), '-02-02')) AS days_since_ghd
3 ;
```

days_since_ghd
198

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TIME & DATE FUNCTIONS

SELECTING DATA MULTIPLE TIMES FOR FORMATTING

SQL Query Area

```
1 SELECT
2   DATE_FORMAT(NOW(), '%W, %b. %D, %Y') AS formatted_date,
3   DATE_FORMAT(NOW(), '%W') AS day_of_week,
4   DATE_FORMAT(NOW(), '%b') AS abbrev_month,
5   DATE_FORMAT(NOW(), '%D') AS date_with_extension,
6   DATE_FORMAT(NOW(), '%Y') AS four_digit_year
7 ;
```

formatted_date	day_of_week	abbrev_month	date_with_extension	four_digit_year
Thursday, Aug. 19th, 2010	Thursday	Aug	19th	2010

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TIME & DATE FUNCTIONS

IF / THEN CONDITIONS

```
SQL Query Area
1 SELECT
2 LEFT(DATE_FORMAT(NOW(), '%W'),1) AS day_initial
3 ;
```

day_initial
T

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TIME & DATE FUNCTIONS

IF / THEN CONDITIONS

```
SQL Query Area
1 SELECT
2   IF(LEFT(DATE_FORMAT(NOW(), '%W'),1)="T",1,0) AS is_tu_th
3 ;
```

is_tu_th
1

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TIME & DATE FUNCTIONS

IF / THEN CONDITIONS

```
SQL Query Area
1 SELECT
2   IF(LEFT(DATE_FORMAT(NOW(), '%W'),1)="T",1,0) AS is_tu_th
3 ;
```

is_tu_th
1

```
<tmpl_if row.field.is_tu_th.value>
    <p>Content for Tuesdays and Thursdays</p>
<tmpl_else>
    <p>Content for all other days</p>
</tmpl_if>
```

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TIME & DATE FUNCTIONS

IF / THEN CONDITIONS

```
SQL Query Area
1 SELECT
2 IF(LEFT(DATE_FORMAT(NOW(), '%W'),1)="T",1,0) AS is_tu_th_1,
3 IF(DAYOFWEEK(NOW())=3 OR DAYOFWEEK(NOW())=5,1,0) AS is_tu_th_2,
4 IF(WEEKDAY(NOW())=1 OR WEEKDAY(NOW())=3,1,0) AS is_tu_th_3
5 ;
```

is_tu_th_1	is_tu_th_2	is_tu_th_3
1	1	1

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TIME & DATE FUNCTIONS

AN EXAMPLE WITHOUT DATA

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U of MN: Search | Directories | One Stop

inside

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Hello, Dale Trexel | Logout | Turn Admin On! | Public Website | Intranet

Directories

Faculty
Staff
Zoobook (Intranet)

Inside Home

Board of Advisors
Calendar
Communications
Career Center
Faculty Workshops and Candidates
Finance
Forums & Feeds
Human Resources
Room & Technology Reservations
Safety Information
Search
Student Services
Technology
Toolbox

Quick Links

Law Library
Institutes & Journals
Search

Calendar of Events

Thursday, August 19
Partners in Closing the Gap
8:00 am
P2 Faculty Meeting
9:30 am
Entry-level Appointments Committee meeting
10:00 am
Student Services Staff Meeting
10:30 am
Event Planning Mtg
11:00 am
Introduction to American Law Lunch
12:00 pm
Entry-level Appointments Committee video interviews
1:00 pm
Partners in Closing the Gap break out session
1:00 pm
Interview Preparation
3:30 pm
Carl Warren Meeting
6:00 pm
MCDA RoundTable
6:00 pm
more...

Out and About

The Infinity Project Presents "Achieving Diversity on the Bench in the 21st Century"
more...

Law School News

Conference to Study Future of Regional-Level Investment and Commercial Banks
LL.M. Introduction to American Law Program Begins This Week
more...

Faculty News

Prof. Hall in AdvaMed Statement on Changes to 510(k) Process
Prof. Hall and Study Featured by Star Tribune
more...

Student Updates

WLSA Bookroom Sale Hours
more...

Finance Forms Due Today:

Bi-Weekly Timesheets
Bi-Weekly Leave Report

Board of Advisors

Download the latest meeting materials [here](#).

Announcements

Call for Review and Comments on University Conflict of Interest Policy
more...

Tech Update

Law School Websites Maintenance, 8/22/2010
more...

Community Corner

July Cake Break
more...

Finance Forms Due Today:
Bi-Weekly Timesheets
Bi-Weekly Leave Report

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TIME & DATE FUNCTIONS

AN EXAMPLE WITHOUT DATA

Finance Forms Due Today:

Bi-Weekly Timesheets
Bi-Weekly Leave Report

Finance Forms Due Monday:

Bi-Weekly Timesheets
Bi-Weekly Leave Report

SQL Query Area

```
1 SELECT
2   IF (MOD(DATEDIFF(CURDATE(), '2010-05-10'), 14) = 0, 1, 0) AS dueToday,
3   IF (MOD(DATEDIFF(CURDATE(), '2010-05-10'), 14) > 10, 1, 0) AS dueMonday
4 ;
```

dueToday	dueMonday
0	0

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TIME & DATE FUNCTIONS

AN EXAMPLE WITHOUT DATA

```
<a name="id<tmpl_var assetId>" id="id<tmpl_var assetId>"></a>

<tmpl_if session.var.adminOn>
  <p><tmpl_var controls></p>
</tmpl_if>

<tmpl_if debugMode>
  <div style="color: #FFFFCC">
    <ul>
      <tmpl_loop debug_loop>
        <li><tmpl_var debug.output></li>
      </tmpl_loop>
    </ul>
  </div>
</tmpl_if>

<tmpl_unless rows.count.isZero>
  <tmpl_loop rows_loop>

    <tmpl_if row.field.dueToday.value>
      ^AssetProxy(index/finance-reminder-today);
    <tmpl_else>
      <tmpl_if row.field.dueMonday.value>
        ^AssetProxy(index/finance-reminder-monday);
      </tmpl_if>
    </tmpl_if>

  </tmpl_if>

</tmpl_loop>
</tmpl_unless>
```

Finance Forms Due Today:

Bi-Weekly Timesheets
Bi-Weekly Leave Report

Finance Forms Due Monday:

Bi-Weekly Timesheets
Bi-Weekly Leave Report



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TIME & DATE FUNCTIONS

AN EXAMPLE WITHOUT DATA

Finance Forms Due Today:

Bi-Weekly Timesheets
Bi-Weekly Leave Report

```
<tmpl_unless rows.count.isZero>
<tmpl_loop rows_loop>

  <tmpl_if row.field.dueToday.value>
    ^AssetProxy(index/finance-reminder-today);
  <tmpl_else>
    <tmpl_if row.field.dueMonday.value>
      ^AssetProxy(index/finance-reminder-monday);
    </tmpl_if>
  </tmpl_if>

</tmpl_loop>
</tmpl_unless>
```

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TODAY'S TIPS & TRICKS

- Date/Time functions
- Format the same data multiple ways
- Create template variables for novel if/then conditions
- **Add “OR” condition to your template!**
- Combine datasets with Union

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OR TEMPLATE VARIABLE

I promise not to yell at you,
except on special occasions.



Tuesdays and bank
holidays would be good.

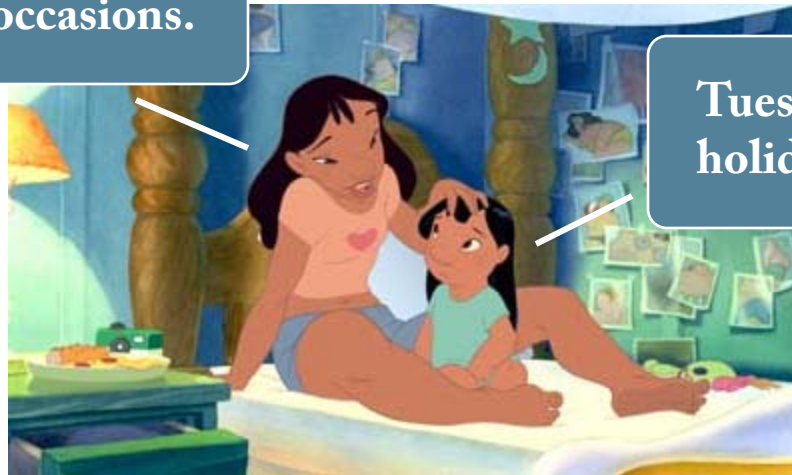
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OR TEMPLATE VARIABLE

I promise not to yell at you,
except on special occasions.



Tuesdays ~~and~~ or bank
holidays would be good.

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OR TEMPLATE
VARIABLE

AND IS
SIMPLE

Tuesdays **and** bank
holidays would be good.

```
<tmpl_if row.field.is_tuesday.value>  
  <tmpl_if row.field.bank_holiday.value>  
  
    <p>Yelling is permitted.</p>  
  
  </tmpl_if>  
</tmpl_if>
```

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OR TEMPLATE VARIABLE

OR IS MESSY & REPETITIVE

Tuesdays **or** bank holidays would be good.

```
<tmpl_if row.field.is_tuesday.value>
    <p>Yelling is permitted.</p>
<tmpl_else>
    <tmpl_if row.field.bank_holiday.value>
        <p>Yelling is permitted.</p>
    </tmpl_if>
</tmpl_if>
```

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**OR TEMPLATE
VARIABLE**

**OR CAN BE
SIMPLIFIED!**

Tuesdays **or** bank
holidays would be good.

```
<tmpl_if row.field.is_tuesday_or_bank_holiday.value>  
    <p>Yelling is permitted.</p>  
</tmpl_if>
```

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TODAY'S TIPS & TRICKS

- Date/Time functions
- Format the same data multiple ways
- Create template variables for novel if/then conditions
- Add “OR” condition to your template!
- **Combine datasets with Union**

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COMBINING FACULTY DATA

EXAMPLE 1: SELECT LIST

Authors

Add Authors (add one at a time, in order of citation)

Enter author name as "lastname, firstname"

Confirm link to our faculty ▼

Authors, please create a NEW entry in the

Studies No.

(Previously: August 20, 2010)

- N Lee, Christopher
- d Lee, Claire
- Lee, Tahirih V.
- Lemley, Mark A.
- Lengnick, Sonja
- S Lenz, Connie
- Levine, Carol
- Levinson, Bernard M.
- Levit, Janet Koven
- Levy, Robert
- Levy, Roberta K.
- Lewis, Nancy
- Lewis, Ray
- Lewis, Thomas
- P Lewis, Thomas P.

Select list combines
2 different tables

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COMBINING FACULTY DATA

EXAMPLE 1: THE GOAL

```
<label for="ourFaculty">Confirm link to our faculty</label>
<select id="ourFaculty" name="ourFaculty" class="larger">

  <option id="facId_0" value="0" class="larger">&mdash; No Match &mdash;</option>

  <option id="facId_726" value="726" class="larger">Adams, Edward</option>

  <option id="facId_727" value="727" class="larger">Adelman, David E.</option>

  . . .

  <option id="facId_1046" value="1046" class="larger">Zaidi, Mahmood</option>

  <option id="facId_1047" value="1047" class="larger">Zerby, Paul G.</option>

</select>
```

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COMBINING FACULTY DATA

EXAMPLE 1: THE TEPLATE

```
<label for="ourFaculty">Confirm link to our faculty</label>
<select id="ourFaculty" name="ourFaculty" class="larger">

  <option id="facId_0" value="0" class="larger">&mdash; No Match &mdash;</option>

  <option id="facId_726" value="726" class="larger">Adams, Edward</option>

  <option id="facId_727" value="727" class="larger">Adelman, David E.</option>

  . . .

  <option id="facId_1046" value="1046" class="larger">Zaidi, Mahmood</option>

  <option id="facId_1047" value="1047" class="larger">Zerby, Paul G.</option>

</select>
```

```
  <option id="facId 0" value="0" class="larger">&mdash; No Match &mdash;</option>

<tmpl_unless rows.count.isZero>
<tmpl_loop rows_loop>

  <option id="facId <tmpl var row.field facDetailsId.value>"
  value="<tmpl_var row.field facDetailsId.value>" class="larger">

    <tmpl_var row.field.lastname.value>, <tmpl_var row.field.firstname.value>

  </option>

</tmpl_loop>
</tmpl_unless>
```



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COMBINING FACULTY DATA

EXAMPLE 1: THE QUERY

```
SELECT
  L.personLastname AS lastname,
  L.personFirstname AS firstname,
  D.facDetailsId AS facDetailsId
FROM
  intranet.Law_Person L
LEFT JOIN
  intranet.Faculty_Details D
ON L.personId = D.personId
WHERE
  personFaculty > 0
ORDER BY personLastname, personFirstname
```

< First query,
from directory



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COMBINING FACULTY DATA

EXAMPLE 1: THE QUERY

```
(SELECT
  L.personLastname AS lastname,
  L.personFirstname AS firstname,
  D.facDetailsId AS facDetailsId
FROM
  intranet.Law_Person L
LEFT JOIN
  intranet.Faculty_Details D
ON L.personId = D.personId
WHERE
  personFaculty > 0
ORDER BY personLastname, personFirstname)
UNION
(SELECT
  fdLastname AS lastname,
  fdFirstname AS firstname,
  facDetailsId AS facDetailsId
FROM intranet.Faculty_Details
WHERE
  fdLastname != ""
  AND fdFirstname != ""
ORDER BY fdLastname, fdFirstname)
```

◀ Add a query, to include former faculty



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COMBINING FACULTY DATA

EXAMPLE 1: THE QUERY

```
(SELECT
  L.personLastname AS lastname,
  L.personFirstname AS firstname
  D.facDetailsId AS facDetailsId
FROM
  intranet.Law_Person L
LEFT JOIN
  intranet.FacultyDetails D
ON L.personId = D.personId
WHERE
  personFaculty > 0
ORDER BY personLastname, personFirstname)
UNION
(SELECT
  fdLastname AS lastname,
  fdFirstname AS firstname,
  facDetailsId AS facDetailsId
FROM intranet.Faculty_Details
WHERE
  fdLastname != ""
  AND fdFirstname != ""
ORDER BY fdLastname, fdFirstname)
```

Number of fields
and field names
must match!



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COMBINING FACULTY DATA

EXAMPLE 1: THE QUERY

```
SELECT
  lastname,
  firstname,
  MAX(facDetailsId) AS facDetailsId
FROM
(
  (SELECT
    L.personLastname AS lastname,
    L.personFirstname AS firstname,
    D.facDetailsId AS facDetailsId
  FROM
    intranet.Law_Person L
  LEFT JOIN
    intranet.Faculty_Details D
  ON L.personId = D.personId
  WHERE
    personFaculty > 0
  ORDER BY personLastname, personFirstname)
  UNION
  (SELECT
    fdLastname AS lastname,
    fdFirstname AS firstname,
    facDetailsId AS facDetailsId
  FROM intranet.Faculty_Details
  WHERE
    fdLastname != ""
    AND fdFirstname != ""
  ORDER BY fdLastname, fdFirstname)
) AS union1
GROUP BY lastname, firstname
ORDER BY lastname, firstname
```

Grouping data:
which ID to use?



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COMBINING FACULTY DATA

EXAMPLE 1: THE QUERY

```
SELECT
  lastname,
  firstname,
  MAX(facDetailsId) AS facDetailsId
FROM
(
  (SELECT
    L.personLastname AS lastname,
    L.personFirstname AS firstname,
    D.facDetailsId AS facDetailsId
  FROM
    intranet.Law_Person L
  LEFT JOIN
    intranet.Faculty_Details D
  ON L.personId = D.personId
  WHERE
    personFaculty > 0
  ORDER BY personLastname, personFirstname)
  UNION
  (SELECT
    fdLastname AS lastname,
    fdFirstname AS firstname,
    facDetailsId AS facDetailsId
  FROM intranet.Faculty_Details
  WHERE
    fdLastname != ""
    AND fdFirstname != ""
  ORDER BY fdLastname, fdFirstname)
) AS union1
GROUP BY lastname, firstname
ORDER BY lastname, firstname
```

Derived table requires its own alias!

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COMBINING FACULTY DATA

EXAMPLE 1: THE QUERY

```
SELECT
  REPLACE(lastname, '\\', '') AS lastname,
  REPLACE (firstname, '\\', '') AS firstname,
  MAX(facDetailsId) AS facDetailsId
FROM
(
  (SELECT
    L.personLastname AS lastname,
    L.personFirstname AS firstname,
    D.facDetailsId AS facDetailsId
  FROM
    intranet.Law_Person L
  LEFT JOIN
    intranet.Faculty_Details D
  ON L.personId = D.personId
  WHERE
    personFaculty > 0
  ORDER BY personLastname, personFirstname)
  UNION
  (SELECT
    fdLastname AS lastname,
    fdFirstname AS firstname,
    facDetailsId AS facDetailsId
  FROM intranet.Faculty_Details
  WHERE
    fdLastname != ""
    AND fdFirstname != ""
  ORDER BY fdLastname, fdFirstname)
) AS union1
GROUP BY lastname, firstname
ORDER BY lastname, firstname
```

Dealing with
escaped apostrophes



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COMBINING FACULTY DATA

EXAMPLE 2: AUTOSUGGEST

Autosuggest
combines 3
different tables

Authors

Add Authors (add one at a time, in order of citation)

Enter author name as "lastname, firstname" Confirm link to our faculty

Lee, Christopher
Lee, Claire
Lee, Tahirih V.
Lemley, Mark A.
Lengnick, Sonja
Lenz, Connie
Levine, Carol
Levinson, Bernard M.
Levit, Janet Koven
Levy, Robert
Levy, Roberta K.
Lewis, Nancy
Lewis, Ray
Lewis, Thomas
Lewis, Thomas P.

ors, please create a NEW entry in the

udies No.

(Previously: August 20, 2010)

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COMBINING FACULTY DATA

EXAMPLE 2: THE GOAL

```
YAHOO.allAuthors.Data = {  
  allCitationAuthors: [  
  
    { name: "Abe, Theodore", id: 0 },  
    { name: "Abraham, Kenneth S.", id: 0 },  
    { name: "Abram, Morris B.", id: 0 },  
    { name: "Abramson, Betsy J.", id: 0 },  
      ■ ■ ■  
    { name: "Zangs, John", id: 0 },  
    { name: "Zemans, Frances Kahn", id: 0 },  
    { name: "Zerby, Paul G.", id: 1047 },  
    { name: "Zimring, Franklin E.", id: 0 }  
  
  ]  
};
```

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COMBINING FACULTY DATA

EXAMPLE 2: THE TEMPLATE

```
YAHOO.allAuthors.Data = {
  allCitationAuthors: [

    { name: "Abe, Theodore", id: 0 },
    { name: "Abraham, Kenneth S.", id: 0 },
    { name: "Abram, Morris B.", id: 0 },
    { name: "Abramson, Betsy J.", id: 0 },
    * * *
    { name: "Zangs, John", id: 0 },
    { name: "Zemans, Frances Kahn", id: 0 },
    { name: "Zerby, Paul G.", id: 1047 },
    { name: "Zimring, Franklin E.", id: 0 }

  ]
};
```

```
YAHOO.allAuthors.Data = {
  allCitationAuthors: [

    <tmpl_unless rows.count.isZero>
    <tmpl_loop rows_loop>

      { name: "<tmpl_var row.field.lastname.value>, <tmpl_var row.field.firstname.value>",
        id: <tmpl_var row.field.facDetailsId.value> }<tmpl_unless __LAST__>,</tmpl_unless>

    </tmpl_loop>
    </tmpl_unless>

  ]
};
```



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COMBINING FACULTY DATA

EXAMPLE 2: THE TEMPLATE

```
YAHOO.allAuthors.Data = {
  allCitationAuthors: [

    { name: "Abe, Theodore", id: 0 },
    { name: "Abraham, Kenneth S.", id: 0 },
    { name: "Abram, Morris B.", id: 0 },
    { name: "Abramson, Betsy J.", id: 0 },
    * * *
    { name: "Zangs, John", id: 0 },
    { name: "Zemans, Frances Kahn", id: 0 },
    { name: "Zerby, Paul G.", id: 1047 },
    { name: "Zimring, Franklin E.", id: 0 }

  ]
};
```

```
YAHOO.allAuthors.Data = {
  allCitationAuthors: [

    <tmpl_unless rows.count.isZero>
    <tmpl_loop rows_loop>

      { name: "<tmpl_var row.field.lastname.value>, <tmpl_var row.field.firstname.value>".
        id: <tmpl_var row.field.facDetailsId.value> }<tmpl_unless __LAST__,</tmpl_unless>

    </tmpl_loop>
    </tmpl_unless>

  ]
};
```



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COMBINING FACULTY DATA

EXAMPLE 2: THE QUERY

```
SELECT
  REPLACE(lastname,'\','') AS lastname,
  REPLACE (firstname,'\','') AS firstname,
  MAX(facDetailsId) AS facDetailsId
FROM
(
  (SELECT
    L.personLastname AS lastname,
    L.personFirstname AS firstname,
    D.facDetailsId AS facDetailsId
  FROM
    intranet.Law_Person L
  LEFT JOIN
    intranet.Faculty_Details D
  ON L.personId = D.personId
  WHERE
    personFaculty > 0
  ORDER BY personLastname, personFirstname)
  UNION
  (SELECT
    fdLastname AS lastname,
    fdFirstname AS firstname,
    facDetailsId AS facDetailsId
  FROM intranet.Faculty_Details
  WHERE
    fdLastname != ''
    AND fdFirstname != ''
  ORDER BY fdLastname, fdFirstname)
) AS union1
UNION
(
  (SELECT
    citeLastname AS lastname,
    citeFirstname AS firstname,
    MAX(facDetailsId) AS facDetailsId
  FROM intranet.Faculty_Citation_Link
  WHERE
    citeLastname != ""
    AND citeFirstname != ""
  GROUP BY citeLastname, citeFirstname
  ORDER BY citeLastname, citeFirstname)
) AS union2
GROUP BY lastname, firstname
ORDER BY lastname, firstname
```

Basically, just UNION
in a third SELECT

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COMBINING FACULTY DATA

EXAMPLE 2: THE QUERY

```
SELECT
  REPLACE(REPLACE(lastname, '&#39;', '\\'), '\\', '') AS lastname,
  REPLACE(REPLACE(firstname, '&#39;', '\\'), '\\', '') AS firstname,
  MAX(facDetailsId) AS facDetailsId
FROM
  (
    (SELECT
      L.personLastname AS lastname,
      L.personFirstname AS firstname,
      D.facDetailsId AS facDetailsId
    FROM
      intranet.Law_Person L
    LEFT JOIN
      intranet.Faculty_Details D
    ON L.personId = D.personId
    WHERE
      personFaculty > 0
    ORDER BY personLastname, personFirstname)
    UNION
    (SELECT
      fdLastname AS lastname,
      fdFirstname AS firstname,
      facDetailsId AS facDetailsId
    FROM intranet.Faculty_Details
    WHERE
      fdLastname != ''
      AND fdFirstname != ''
    ORDER BY fdLastname, fdFirstname)
    UNION
    (SELECT
      citeLastname AS lastname,
      citeFirstname AS firstname,
      MAX(facDetailsId) AS facDetailsId
    FROM intranet.Faculty_Citation_Link
    WHERE
      citeLastname != ''
      AND citeFirstname != ''
    GROUP BY citeLastname, citeFirstname
    ORDER BY citeLastname, citeFirstname)
  ) AS union1
GROUP BY lastname, firstname
ORDER BY lastname, firstname
```

However, a new
apostrophe problem



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COMBINING FACULTY DATA

EXAMPLE 2: AUTOSUGGEST

Authors

Add Authors (add one at a time, in order of citation)

Enter author name as "lastname, firstname" Confirm link to our faculty

Lee, Christopher
Lee, Claire
Lee, Tahirih V.
Lemley, Mark A.
Lengnick, Sonja
Lenz, Connie
Levine, Carol
Levinson, Bernard M.
Levit, Janet Koven
Levy, Robert
Levy, Roberta K.
Lewis, Nancy
Lewis, Ray
Lewis, Thomas
Lewis, Thomas P.

ors, please create a NEW entry in the

udies No.

(Previously: August 20, 2010)

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COMBINING EVENT DATA

EXAMPLE 3: EVENTS PREVIEW

The screenshot displays the University of Minnesota Law School website. At the top, a navigation bar includes "Information for:" followed by "PROSPECTIVE STUDENTS", "CURRENT STUDENTS", and "ALUMNI". A large banner image shows students walking on a campus path with the word "LAW" in large letters. Below the banner, a yellow arrow points to a "events" section. This section features a "FULL CALENDAR" link and a list of upcoming events: "NOW Judicial Trial Skills Training Program 11:00 am - 3:00 pm", "Monday, Aug 23 On-Campus Interviews (All Day)", and "Tuesday, Aug 24 On-Campus Interviews (All Day)".

Information for: [PROSPECTIVE STUDENTS](#) [CURRENT STUDENTS](#) [ALUMNI](#)

LAW

THE LAW SCHOOL
WALTER E. HENNING
HALL

events

[FULL CALENDAR](#)

NOW Judicial Trial Skills Training Program
11:00 am - 3:00 pm
Monday, Aug 23 On-Campus Interviews (All Day)
Tuesday, Aug 24 On-Campus Interviews (All Day)

About the Law School
Our Faculty
Admissions
Law Library
Institutes & Journals
Career Center
e>Perspectives
Media Inquiries

Quick Links
Home | Contact
News/Events | Site Map
Inside.Law | Intranet

WAYS TO GIVE

Search [GO!](#)

events

[FULL CALENDAR](#)

NOW Judicial Trial Skills Training Program
11:00 am - 3:00 pm
Monday, Aug 23 On-Campus Interviews (All Day)
Tuesday, Aug 24 On-Campus Interviews (All Day)

news

[MORE](#) | [RSS](#)

Conference to Study Future of Regional-Level Investment and Commercial Banks
LL.M. Introduction to American Law Program Begins This Week
Law School to Host Constitution Day Program Sept. 17

faculty news

[MORE](#) | [RSS](#)

Prof. Schwarcz Presents Research to Insurance Regulators
Prof. Hall in AdvaMed Statement on Changes to 510(k) Process
Prof. Hall and Study Featured by Star Tribune

CLASS OF 2013 ORIENTATION

August 31 - September 3

LOCKHART LECTURE

ANDREW ASHWORTH
Crimes of Possession: The Liberal Criminal Lawyer at the Edge

September 23

LAW & INEQUALITY SYMPOSIUM

International Wrongs, International Rights: The Use of Criminal Law to Protect Human Rights

September 28

my experience:

"The Human Rights Center and clinical faculty have provided the resources and skills necessary for me to be an indigenous issues advocate—a testament to the Law School's commitment to meeting each student's needs."

— TATUYE MEANS ('10)
Fellow, Tribal Law and Policy Institute

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COMBINING EVENT DATA

EXAMPLE 3: EVENTS PREVIEW

```
SELECT
  b.event_date AS sort_date,
  a.event_start AS sort_time,
  a.event_title AS title,
  IF(b.event_date=DATE(NOW()),1,0) AS is_today,
  IF((a.event_start='00:00:00')&&(a.event_end='00:00:00'),1,0) AS all_day,
  IF((b.event_date=DATE(NOW()))&&(a.event_start<TIME(NOW()))&&(a.event_end>TIME(NOW()))),1,0)
    AS happening_now,
  DATE_FORMAT(b.event_date,'%W') AS day_text,
  DATE_FORMAT(b.event_date,'%e') AS day_number,
  DATE_FORMAT(b.event_date,'%b') AS mo_abbr,
  TIME_FORMAT(a.event_start,'%l:%i') AS time_start_display,
  LOWER(TIME_FORMAT(a.event_start,'%p')) AS time_start_ampm,
  TIME_FORMAT(a.event_end,'%l:%i') AS time_end_display,
  LOWER(TIME_FORMAT(a.event_end,'%p')) AS time_end_ampm,
  CONCAT('/news/calendar.html?cal=details&my_db=calendar&event_id=',a.event_id,'%&my_date=',
    b.event_date,'%&StartTime=',a.event_start) AS event_url,
  CONCAT('/news/calendar.html?cal=day&my_date=',b.event_date) AS event_day_url
FROM calendar.event AS a, calendar.event_time AS b
WHERE a.event_id=b.event_id
AND a.on_frontpage > 0
AND a.event_view='Law School'
AND (b.event_date > DATE(NOW()) OR (b.event_date = DATE(NOW()) AND (a.event_end = '00:00:00' OR
  a.event_end > TIME(NOW()))))
ORDER BY sort_date ASC, sort_time ASC
LIMIT 4
```

This is the **simpler**
of the two queries!

COMBINING EVENT DATA

EXAMPLE 3: EVENTS PREVIEW

< 2nd query handles
multiple instances

```
SELECT
  r.event_date AS sort_date,
  IF(MIN(r.event_time)>0,MIN(r.event_time),MIN(r.start_time)) AS sort_time,
  e.event_details AS title,
  IF(r.event_date=DATE(NOW()),1,0) AS is_today,
  IF((MIN(r.start_time)='00:00:00')&&(MIN(r.end_time)='00:00:00'),1,0) AS all_day,
  IF((r.event_date=DATE(NOW()))&&(IF(MIN(r.event_time)>0,MIN(r.event_time),
    MIN(r.start_time))<TIME(NOW()))&&(MAX(r.end_time)>TIME(NOW()))),1,0) AS happening_now,
  DATE_FORMAT(r.event_date,'%W') AS day_text,
  DATE_FORMAT(r.event_date,'%e') AS day_number,
  DATE_FORMAT(r.event_date,'%b') AS mo_abbr,
  TIME_FORMAT(IF(MIN(r.event_time)>0,MIN(r.event_time),MIN(r.start_time)),'%l:%i')
    AS time_start_display,
  LOWER(TIME_FORMAT(IF(MIN(r.event_time)>0,MIN(r.event_time),MIN(r.start_time)),'%p'))
    AS time_start_ampm,
  TIME_FORMAT(MAX(r.end_time),'%l:%i') AS time_end_display,
  LOWER(TIME_FORMAT(MAX(r.end_time),'%p')) AS time_end_ampm,
  IF(COUNT(e.event_details)>1,1,0) AS multiple_count,
  CONCAT('/news/calendar.html?cal=details&mydb=rooms&event_id=',r.event_id,'&my_date=',
    r.event_date,'&StartTime=',r.start_time) AS event_url,
  CONCAT('/news/calendar.html?cal=day&my_date=',r.event_date) AS event_day_url
FROM intranet.Reservation_Date r, intranet.Reservation_Event e
WHERE e.event_id = r.event_id
AND on_calendar > 0
AND on_frontpage > 0
AND (r.event_date > DATE(NOW()) OR (r.event_date = DATE(NOW()) AND (r.end_time = '00:00:00' OR
  r.end_time > TIME(NOW()))))
GROUP BY sort_date, title
ORDER BY sort_date ASC, sort_time ASC
LIMIT 4
```

COMBINING EVENT DATA

EXAMPLE 3: EVENTS PREVIEW

```
SELECT * FROM
(
(SELECT
b.event_date AS sort_date,
a.event_start AS sort_time,
a.event_title AS title,
IF(b.event_date=DATE(NOW()),1,0) AS is_today,
IF((a.event_start='00:00:00')&&(a.event_end='00:00:00'),1,0) AS all_day,
IF((b.event_date=DATE(NOW()))&&(a.event_start<TIME(NOW()))&&(a.event_end>TIME(NOW())),1,0) AS happening_now,
DATE_FORMAT(b.event_date,'%W') AS day_text,
DATE_FORMAT(b.event_date,'%e') AS day_number,
DATE_FORMAT(b.event_date,'%b') AS mo_abbr,
TIME_FORMAT(a.event_start,'%l:%i') AS time_start_display,
LOWER(TIME_FORMAT(a.event_start,'%p')) AS time_start_ampm,
TIME_FORMAT(a.event_end,'%l:%i') AS time_end_display,
LOWER(TIME_FORMAT(a.event_end,'%p')) AS time_end_ampm,
CONCAT('0') AS multiple_count,
CONCAT('/news/calendar.html?cal=details&my_db=calendar&event_id=',a.event_id,'&my_date=',b.event_date,'&StartTime=',a.event_start) AS event_url,
CONCAT('/news/calendar.html?cal=day&my_date=',b.event_date) AS event_day_url
FROM calendar.event AS a, calendar.event_time AS b
WHERE a.event_id=b.event_id
AND b.event_date > 0
AND a.on_frontpage > 0
AND a.event_view='Law School'
AND (b.event_date > DATE(NOW())) OR (b.event_date = DATE(NOW()) AND (a.event_end = '00:00:00' OR a.event_end > TIME(NOW())))
ORDER BY sort_date ASC, sort_time ASC
LIMIT 4)
UNION
(SELECT
r.event_date AS sort_date,
IF(MIN(r.event_time)>0,MIN(r.event_time),MIN(r.start_time)) AS sort_time,
e.event_details AS title,
IF(r.event_date=DATE(NOW()),1,0) AS is_today,
IF((MIN(r.start_time)='00:00:00')&&(MIN(r.end_time)='00:00:00'),1,0) AS all_day,
IF((r.event_date=DATE(NOW()))&&(IF(MIN(r.event_time)>0,MIN(r.event_time),MIN(r.start_time))<TIME(NOW()))&&(MAX(r.end_time)>TIME(NOW())),1,0) AS
happening_now,
DATE_FORMAT(r.event_date,'%W') AS day_text,
DATE_FORMAT(r.event_date,'%e') AS day_number,
DATE_FORMAT(r.event_date,'%b') AS mo_abbr,
TIME_FORMAT(IF(MIN(r.event_time)>0,MIN(r.event_time),MIN(r.start_time)),'%l:%i') AS time_start_display,
LOWER(TIME_FORMAT(IF(MIN(r.event_time)>0,MIN(r.event_time),MIN(r.start_time)),'%p')) AS time_start_ampm,
TIME_FORMAT(MAX(r.end_time),'%l:%i') AS time_end_display,
LOWER(TIME_FORMAT(MAX(r.end_time),'%p')) AS time_end_ampm,
IF(COUNT(e.event_details)>1,1,0) AS multiple_count,
CONCAT('/news/calendar.html?cal=details&mydb=rooms&event_id=',r.event_id,'&my_date=',r.event_date,'&StartTime=',r.start_time) AS event_url,
CONCAT('/news/calendar.html?cal=day&my_date=',r.event_date) AS event_day_url
FROM intranet.Reservation_Date r, intranet.Reservation_Event e
WHERE e.event_id = r.event_id
AND on_calendar > 0
AND on_frontpage > 0
AND (r.event_date > DATE(NOW())) OR (r.event_date = DATE(NOW()) AND (r.end_time = '00:00:00' OR r.end_time > TIME(NOW())))
GROUP BY sort_date, title
ORDER BY sort_date ASC, sort_time ASC
LIMIT 4)
) AS union1
ORDER BY sort_date ASC, sort_time ASC
LIMIT 4
```

Back to 4 items
returned

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COMBINING EVENT DATA

events

FULL CALENDAR

NOW Judicial Trial Skills Training Program
11:00 am – 3:00 pm

Monday, Aug 23 On-Campus Interviews (All Day)

Tuesday, Aug 24 On-Campus Interviews (All Day)

```
<ul id="sql_{tmpl_var assetId}" class="home_feeds cal_feed">
<tmpl_loop rows_loop>
  <tmpl_unless _LAST_ <!-- normal entries -->
    <li>
      <span class="cal_dow"><tmpl_if row.field.happening_now.value>NOW<tmpl_else><tmpl_if
row.field.is_today.value>TODAY<tmpl_else><tmpl_var row.field.day_text.value>,</tmpl_if></tmpl_if></span>
      <tmpl_unless row.field.happening_now.value><tmpl_unless row.field.is_today.value><span
class="cal_date"><tmpl_var row.field.mo_abbr.value> <tmpl_var
row.field.day_number.value></span></tmpl_unless></tmpl_unless>
      <span class="cal_title"><a href="{<tmpl_if row.field.multiple_count.value><tmpl_var
row.field.event_day_url.value><tmpl_else><tmpl_var row.field.event_url.value></tmpl_if>}"><tmpl_var
row.field.title.value></a></span>
      <span class="cal_time"><tmpl_if row.field.all_day.value>(All Day)<tmpl_else><tmpl_var
row.field.time_start_display.value>&nbsp;<tmpl_var
row.field.time_start_ampm.value>&nbsp;&dash;&nbsp;<tmpl_var
row.field.time_end_display.value>&nbsp;<tmpl_var row.field.time_end_ampm.value></tmpl_if></span>
    </li>
    <tmpl_else <!-- display "more today" if appropriate -->
      <tmpl_if row.field.is_today.value>
        <li class="more_today">
          <span><a href="/news/calendar.html?cal=day">view all of today's events...</a></span>
        </li>
      </tmpl_if>
    </tmpl_unless>
  </tmpl_loop>
</ul>
```

TODAY'S TIPS & TRICKS

- Date/Time functions
- Format the same data multiple ways
- Create template variables for novel if/then conditions
- Add “OR” condition to your template!
- Combine datasets with Union
- **Questions?**

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