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## Strange Problem Returning Specific MySQL Results

Posted by kefford - 2015/03/03 15:56

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Hi,

I am asking this to see if there is an obvious reason as to why I am seeing a specific problem when using ARI Data Tables. I am using it to return tables from my online database and all is working just fine, except for one very specific issue that only just now have I seen. It relates to a very specific record entry.

I have a MySQL database table with over 2500 total records and some 30-40 fields per record. In one of the fields I am storing an organization name identifier that is later used to query and search the data. One specific entry is for "TRU S+T" which is the unique abbreviated identifier used to identify the full company name of "TRU Simulation+Training".

When I do any search or try and pull any data on "TRU S+T" using ARI Data Tables the results come back empty. It is like there is some error in the field value being searched. I have confirmed that the entries are stored in the database exactly how they are being searched which is "TRU S+T". Plus, all other searches and reports using the same articles, pages and code works perfectly for all other field values (eg. "CAE", "FSI", etc.) Only "TRU S+T" causes a problem.

The only thing different in this field value is the use of the "+" symbol. Is there a limitation I am not currently aware of? Any ideas or thoughts are welcome.

Ken

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## Re:Strange Problem Returning Specific MySQL Results

Posted by admin - 2015/03/03 16:19

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Hello,

Could you send screenshot(s) of module settings page by email?

Regards,  
ARI Soft

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## Re:Strange Problem Returning Specific MySQL Results

Posted by kefford - 2015/03/04 12:23

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To see the problem go to this page on my site,

<https://sim-x.net/index.php/simulators-region.html>

Near the bottom there is a field called "Simulator Maker". Pick any one other than "TRU Simulation+Training" and see how the page returns the database results using ARI DataTables module. However, not when "TRU Simulation+Training" is selected.

This is what the query is set to inside ARI module,

```
SELECT
LocRegion as Region,
COUNT(DISTINCT uSimID) AS Count
FROM Simulators
WHERE
MarkForDeletion "1"
AND
({$REQUEST:vOrganization|empty:""} = " OR Organization LIKE CONCAT('%',{ $REQUEST:vOrganization|empty:""},'%'))
AND
({$REQUEST:vEngMaker|empty:""} = " OR EngMaker LIKE CONCAT({$REQUEST:vEngMaker|empty:""},'%'))
AND
({$REQUEST:vSimType|empty:""} = " OR SimType LIKE CONCAT('%',{ $REQUEST:vSimType|empty:""},'%'))
AND
```

```
(({$REQUEST:vACFamily|empty:""} = " OR ACFamily LIKE CONCAT('%',{ $REQUEST:vACFamily|empty:""},'%'))
AND
({$REQUEST:vACType|empty:""} = " OR ACType LIKE CONCAT('%',{ $REQUEST:vACType|empty:""},'%'))
AND
({$REQUEST:vYear|empty:""} = " OR InServiceDate LIKE CONCAT('%',{ $REQUEST:vYear|empty:""},'%'))
AND
({$REQUEST:vFMSMaker|empty:""} = " OR FMSMaker LIKE CONCAT({$REQUEST:vFMSMaker|empty:""},'%'))
AND
({$REQUEST:vSimMaker|empty:""} = " OR SimMaker LIKE CONCAT({$REQUEST:vSimMaker|empty:""},'%'))
AND
({$REQUEST:vVisMaker|empty:""} = " OR VisMaker LIKE CONCAT({$REQUEST:vVisMaker|empty:""},'%'))
AND
({$REQUEST:vACMaker|empty:""} = " OR ACMaker LIKE CONCAT({$REQUEST:vACMaker|empty:""},'%'))
AND ({ $REQUEST:vACClass|empty:""} = " OR ACClass LIKE CONCAT({$REQUEST:vACClass|empty:""},'%'))
AND
({$REQUEST:vQualLevel|empty:""} = " OR QualLevel1 LIKE CONCAT('%',{ $REQUEST:vQualLevel|
empty:""},'%') OR QualLevel2 LIKE CONCAT('%',{ $REQUEST:vQualLevel|
empty:""},'%') OR QualLevel3 LIKE CONCAT('%',{ $REQUEST:vQualLevel|
empty:""},'%'))
AND
({$REQUEST:vRegApprovals|empty:""} = " OR Regulator1 LIKE
CONCAT('%',{ $REQUEST:vRegApprovals|empty:""},'%') OR Regulator2 LIKE
CONCAT('%',{ $REQUEST:vRegApprovals|empty:""},'%') OR Regulator3 LIKE
CONCAT('%',{ $REQUEST:vRegApprovals|empty:""},'%') OR Regulator4 LIKE
CONCAT('%',{ $REQUEST:vRegApprovals|empty:""},'%') OR Regulator5 LIKE
CONCAT('%',{ $REQUEST:vRegApprovals|empty:""},'%'))
GROUP BY
LocRegion
ORDER BY
Count DESC
```

The vSimMaker \$REQUEST variable is the one for Simulator Maker.

Thanks.

Ken

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## Re:Strange Problem Returning Specific MySQL Results

Posted by admin - 2015/03/04 13:29

Use %2B instead of +

Regards,  
ARI Soft

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## Re:Strange Problem Returning Specific MySQL Results

Posted by kefford - 2015/03/04 15:23

Thank you very much, but I cannot use that instead of the + sign. The + sign is stored in a field in the database and is read. It is simply stored in a text field like "TRU S+T". I can see from some other tests that when it comes back via the \$REQUEST variable the field is "TRU S T" with the + sign seemingly replaced by a space.

I do not think this is an ARI DataTables issue. I suspect I will have to prevent the + sign from being used in text strings when stored in the database. Is the + character a restricted or special character? I was not aware it was.

Anyway, thanks.

Ken

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## Re:Strange Problem Returning Specific MySQL Results

Posted by admin - 2015/03/04 15:55

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It doesn't require to use it in a database. Use it in filter drop-down.

Regards,  
ARI Soft

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## Re:Strange Problem Returning Specific MySQL Results

Posted by kefford - 2015/03/04 16:29

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Thanks, but once again, what is used in the dropdown/filter is coming directly from the MySQL database, where it is stored as a "+" sign!

From my testing so far, it appears that when this value is passed through the URL to the RESULTS page as a \$REQUEST variable (so it will pre-fill the dropdown) that is when the value changes. The + is being changed to a SPACE, not sure why, but that is what is happening.

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## Re:Strange Problem Returning Specific MySQL Results

Posted by admin - 2015/03/04 18:38

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The extension doesn't modify request variables. It is common rule for request parameters, + symbol should be encoded (encoded value is %2B).

Regards,  
ARI Soft

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