

REFERENCE DOCUMENTATION

STONEWARE

Name : Yahya Cherkaoui El Moqadem
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GetIssues

Queries covered

- Get all outstanding issues (all products)
- Get all outstanding issues for a product (all versions)
- Get all outstanding issues for a product (single version)
- Get all outstanding issues within date range for a product (all versions)
- Get all outstanding issues within date range for a product (single version)
- Get all outstanding issues containing list of keywords (all products)
- Get all outstanding issues for a product containing list of keywords (all versions)
- Get all outstanding issues for a product containing list of keywords (single version)
- Get all outstanding issues within date range for a product containing list of keywords (all versions)
- Get all outstanding issues within date range for a product containing list of keywords (single version)
- Get all resolved issues (all products)
- Get all resolved issues for a product (all versions)
- Get all resolved issues for a product (single version)
- Get all resolved issues within date range for a product (all versions)
- Get all resolved issues within date range for a product (single version)
- Get all resolved issues containing list of keywords (all products)
- Get all resolved issues for a product containing list of keywords (all versions)
- Get all resolved issues for a product containing list of keywords (single version)
- Get all resolved issues within date range for a product containing list of keywords (all versions)
- Get all resolved issues within date range for a product containing list of keywords (single version)

Variables

The variables below can be defined or just ignored. If ignored, a null (or empty) value will be passed as a parameter and that specific filter will not be applied.

```
@Product int = null,  
@Version int = null,  
@Keywords nvarchar(MAX) = '',  
@Status int = null,  
@CreationDate datetime = null,  
@ResolutionDate datetime = null
```

Query

```
SELECT Issues.ID,
       pv_products.Name,
       pv_versions.Version,
       pos_operatingsystems.OperatingSystem,
       Status.Status,
       Issues.Problem,
       Issues.Solution,
       Issues.CreationDate,
       Issues.ResolutionDate

FROM dbo.Issues
      JOIN ProductsVersions ON Issues.ProductVersionID = ProductsVersions.ID
      JOIN ProductsOperatingSystems ON Issues.ProductOperationSystemID =
ProductsOperatingSystems.ID
      JOIN Products pv_products ON ProductsVersions.ProductID = pv_products.ID
      JOIN Versions pv_versions ON ProductsVersions.VersionID = pv_versions.ID
      JOIN Products pos_products ON ProductsOperatingSystems.ProductID =
pos_products.ID
      JOIN OperatingSystems pos_operatingsystems ON ProductsOperatingSystems.ProductID
= pos_operatingsystems.ID
      JOIN Status ON Issues.StatusID = Status.ID
      JOIN string_split(@Keywords, ' ') tKeyword ON Issues.Solution LIKE '%' +
tKeyword.value + '%'
```

Select columns from table Issues joining on the other necessary tables and the function “string_split” with the list of keywords as a parameter.

Conditions

```
WHERE
      pv_products.ID LIKE CASE
          WHEN @Product IS null THEN pv_products.ID
          WHEN @Product IS NOT null THEN @Product
          END
      AND pv_versions.ID LIKE CASE
          WHEN @Version IS null THEN pv_versions.ID
          WHEN @Version IS NOT null THEN @Version
          END
      AND UPPER(Issues.Solution) LIKE '%' + UPPER(tKeyword.value) + '%'
      AND Status.ID LIKE CASE
          WHEN @Status IS null THEN Status.ID
          WHEN @Status IS NOT null THEN @Status
          END
      AND (Issues.CreationDate >= CASE
          WHEN @CreationDate IS null THEN Issues.CreationDate
          WHEN @CreationDate IS NOT null THEN @CreationDate
          END
      OR Issues.CreationDate IS null AND @CreationDate IS null)
      AND (Issues.ResolutionDate <= CASE
          WHEN @ResolutionDate IS null THEN Issues.ResolutionDate
          WHEN @ResolutionDate IS NOT null THEN @ResolutionDate
          END
      OR Issues.ResolutionDate IS null AND @ResolutionDate IS null)
```

Use “CASE WHEN” to check if a parameter has been passed for each variable. When variable is null or empty, we simply ignore it by returning all the results.

Group By

GROUP BY

```
Issues.ID,  
pv_products.Name,  
pv_versions.Version,  
pos_operatingsystems.OperatingSystem,  
Status.Status,  
Issues.Problem,  
Issues.Solution,  
Issues.CreationDate,  
Issues.ResolutionDate;
```

Use "GROUP BY" on every column to remove duplicates created by the keywords filter.