



Recruitment Assessment

Console Application

Description

Create a console application which will access the below endpoint and pull all of the unique topics from within the JSON data returned and print them to the console. You should only use built in libraries and not reference external ones.

Languages

VB.NET

C#

Starting Info

Endpoint to use <https://api.sampleapis.com/codingresources/codingResources>

Example

If we take the screenshot below returned from the endpoint

```
[
  {
    "id": 1,
    "description": "Example description",
    "long": "104.32.567.2",
    "topics": [
      "js",
      "html"
    ]
  },
  {
    "id": 2,
    "description": "Weather Forecast",
    "long": "99.99.00.11",
    "topics": [
      "qr",
      "css",
      "js"
    ]
  }
]
```

End result should look like below

```
js
html
qr
css
```

SQL Pt 1

Description

Create an SQL query based on the TRANSACCION table relating it to USUARIO and CAMPANYA table. We will want to see the total transacciones (assuming all entries are considered a transaction), difference between tInicio and tFinal by Campaign and User/Agent. We will want to see the Campaign Name, Campaign ID, Agent Name, Agent ID, Agent Login, and the totals.

Languages

SQL

Starting Info

<div><div>dbo.TRANSACCION</div><div>Columns</div><div><div>idTransaccion (PK, numeric(10,0), not null)</div><div>idSujeto (numeric(10,0), not null)</div><div>idServicio (numeric(10,0), not null)</div><div>idCampanya (numeric(10,0), not null)</div><div>idSegmento (numeric(10,0), not null)</div><div>tInicio (datetime, null)</div><div>tFinal (datetime, null)</div><div>estado (numeric(5,0), not null)</div><div>idAgente (numeric(10,0), not null)</div><div>idFinal (numeric(10,0), null)</div><div>tProximoContacto (datetime, null)</div><div>tReplanificacion (datetime, null)</div><div>nTAdmin (int, null)</div><div>nTAdminExcedido (int, null)</div><div>nTQ (int, null)</div><div>nCU (numeric(5,0), not null)</div><div>tCreacion (datetime, not null)</div><div>nOrigenTransaccion (tinyint, not null)</div><div>idTransaccionOriginal (numeric(10,0), null)</div><div>idSesionAgente (numeric(10,0), null)</div><div>observaciones (varchar(1000), null)</div><div>idExterno (varchar(36), null)</div><div>atributoSkill (varchar(50), not null)</div><div>idSkill (int, not null)</div><div>OlsonName (varchar(64), null)</div><div>LocalShift (int, null)</div><div>nTDBR (int, null)</div></div></div>	<div><div>dbo.USUARIO</div><div>Columns</div><div><div>IDUSUARIO (PK, FK, numeric(10,0), not null)</div><div>APELLIDO1 (varchar(30), null)</div><div>APELLIDO2 (varchar(30), null)</div><div>NOMBRE (varchar(30), null)</div><div>DNI (varchar(9), null)</div><div>TELEFONO (varchar(15), null)</div><div>FECHAALTA (datetime, null)</div><div>IDTIPO (numeric(5,0), null)</div><div>LOGIN (varchar(16), null)</div><div>IDPUESTOTRABAJODEFECTO (numeric(10,0), null)</div><div>tFechaCambioEstado (datetime, null)</div><div>nEstado (numeric(5,0), null)</div><div>idEmpleado (numeric(10,0), null)</div><div>Password (varbinary(16), null)</div><div>tPasswordSetDate (datetime, not null)</div><div>nPasswordValidPeriod (int, not null)</div><div>bPasswordForceChange (bit, not null)</div><div>tUnlock (datetime, not null)</div><div>Email (nvarchar(250), null)</div><div>Credentials (nvarchar(250), null)</div><div>bUserProtected (bit, null)</div></div></div>	<div><div>dbo.CAMPANYA</div><div>Columns</div><div><div>IDSCRIPT (numeric(10,0), null)</div><div>IDREVISOR (numeric(10,0), null)</div><div>IDCAMPANYA (PK, numeric(10,0), not null)</div><div>NOMBRE (varchar(50), not null)</div><div>DESCRIPCION (varchar(100), null)</div><div>TCREACION (datetime, null)</div><div>TINICIAL (datetime, not null)</div><div>TFINAL (datetime, not null)</div><div>IDISTASUJETOS (numeric(10,0), null)</div><div>TIPOCAMPANYA (numeric(5,0), not null)</div><div>ESTADO (numeric(5,0), null)</div><div>ACDGROUPDEFECTO (varchar(15), null)</div><div>WRAPUP (numeric(5,0), null)</div><div>COLOR (numeric(10,0), null)</div><div>TRUNKGROUP (varchar(16), null)</div><div>CANAL (numeric(2,0), null)</div><div>NUMFAX (varchar(16), null)</div><div>NUMMOVIL (varchar(16), null)</div><div>EMAILCAMP (varchar(50), null)</div><div>EMAILUSER (varchar(50), null)</div><div>EMAILPASSWORD (varchar(50), null)</div><div>EMAILSERVER (varchar(50), null)</div><div>nEmailPuertoIn (numeric(5,0), null)</div><div>URL (varchar(50), null)</div><div>EMAILSENDER (varchar(50), null)</div><div>sEmailUserOut (varchar(50), null)</div><div>sEmailPasswordOut (varchar(50), null)</div><div>sEmailServerOut (varchar(50), null)</div><div>sEmailAliasOut (varchar(50), null)</div><div>nEmailPuertoOut (numeric(5,0), null)</div><div>wCanalPresencial (numeric(2,0), null)</div><div>nDiasHistorico (numeric(10,0), null)</div><div>bIdentificarCliente (numeric(1,0), null)</div><div>bPermitirAnonimos (numeric(1,0), null)</div><div>bPermitirAltas (numeric(1,0), null)</div><div>nCuotaMaxima (numeric(10,0), not null)</div><div>nNoAnswerTimeout (numeric(2,0), not null)</div><div>nTipoGrabacion (numeric(2,0), not null)</div><div>nGestorCola (numeric(2,0), not null)</div><div>bInsertarEnColaCerrada (bit, not null)</div><div>nColaSize (numeric(5,0), not null)</div><div>nColaTimeout (int, not null)</div><div>nColaPolicy (numeric(2,0), not null)</div><div>nServiceObjective (int, not null)</div><div>nSLA (numeric(3,0), not null)</div><div>idSchedule (numeric(10,0), null)</div></div></div>
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SQL Pt 2

Description

Create a stored procedure that will accept CampaignId, AgentId and/or Finalid as parameters and will display the filtered data from the previous query.

Languages

SQL

Log Analysis

Description

Take the attached log file and find where in the logs items will appear.

Ask

Find instances of the below in the log file

- Login
- How many license are being used
- Logout
- Disposition of transaction

Agent Script

Description

Create a web page displaying customer information in text boxes. The text boxes should save the information automatically without the user having to save the changes manually. Under the customer information we would want a small script explaining the reason for the call, this can be at your discretion of the length and what it entails. The last piece we would want is a table which automatically pulls information from an endpoint and display the information in a table. From the endpoint we would want to see the below items in the table from the endpoint. On top of this when you click on the description from the table it should open the link in a new tab.

Data to show in table:

- Description
- Type
- Topics
 - Can show all of these in one cell of the table

Languages

HTML

CSS

JavaScript

Starting Info

Endpoint to use <https://api.sampleapis.com/codingresources/codingResources>