

**S2.04 - Exploitation d’une base de données**

Partie 2 : Interrogation dynamique de la base

Compte-rendu final

ROUYER Johan – TD1 / TP2

GUIHENEUF Mattin – TD1 / TP2

B.U.T Informatique – Semestre 2 (2022 – 2023)

I.U.T de Bayonne et du Pays Basque

Département Informatique

# **Rappel de la problématique**

Peut-on établir un lien entre type de pages fréquentées et localisation des visiteurs ?

# **Solution Informatique**

## **Objectif**

## **Organisation**

L’application informatique est séparée en 4 fichiers python :

* Un premier consacré au menu principal
* Un deuxième consacré à la requête n°1
* Un troisième pour la requête n°2
* Un dernier pour la requête n°3

### **Menu Principal**

On affiche tout d’abord le menu principal avec les 3 questions à disposition et un chiffre associé. On propose à l’utilisateur de saisir le chiffre de son choix. Tant que celui-ci ne correspondra pas à une des trois valeurs possibles, un message d’erreur apparaitra, demandant d’adapter la saisie aux possibilités qui s’offrent à lui. Une fois que la valeur saisi sera possible, l’utilisateur sera redirigé vers la question associé à son choix .

### **Requête 1**

### **Requête 2**

### **Requête 3**

## **Annexes**

**Création de vues :**

1. HIVER

Vue 1 : CREATE VIEW ActRegionHiver AS

SELECT P.type\_page, L.Region1, COUNT(ADV.Id\_action) AS nbrActions

FROM Pages P

JOIN Actions A ON P.Id\_page = A.idpage

JOIN ActionsVisites ADV ON A.idaction = ADV.Id\_action

JOIN Visites V ON V.Id\_visit = ADV.Id\_visit

JOIN Localisations L ON V.Location\_city = L.Id

WHERE ADV.Server\_time LIKE ‘%-12-%’

OR WHERE ADV.Server\_time LIKE ‘%-01-%’

OR WHERE ADV.Server\_time LIKE ‘%-02-%’

GROUP BY P.Type\_page, L.Region1;

Vue 2 : CREATE VIEW MaxActPageHiver AS

SELECT ActRegionHiver.Type\_page, MAX(ActRegionHiver.nbrActions) as nbrActMax

FROM ActRegionHiver

JOIN Pages P ON P.Type\_page = ActRegionHiver.Type\_page

JOIN Actions A ON P.Id\_page = A.idpage

JOIN ActionsVisites ADV ON ADV.Id\_action = A.idaction

WHERE ADV.Server\_time LIKE ‘%-12-%’

OR WHERE ADV.Server\_time LIKE ‘%-01-%’

OR WHERE ADV.Server\_time LIKE ‘%-02-%’

GROUP BY ActRegionHiver.Type\_page;

1. PRINTEMPS

Vue 1 : CREATE VIEW ActRegionPrintemps AS

SELECT P.type\_page, L.Region1, COUNT(ADV.Id\_action) AS nbrActions

FROM Pages P

JOIN Actions A ON P.Id\_page = A.idpage

JOIN ActionsVisites ADV ON A.idaction = ADV.Id\_action

JOIN Visites V ON V.Id\_visit = ADV.Id\_visit

JOIN Localisations L ON V.Location\_city = L.Id

WHERE ADV.Server\_time LIKE ‘%-03-%’

OR WHERE ADV.Server\_time LIKE ‘%-04-%’

OR WHERE ADV.Server\_time LIKE ‘%-05-%’

GROUP BY P.Type\_page, L.Region1;

Vue 2 : CREATE VIEW MaxActPagePrintemps AS

SELECT ActRegionPrintemps.Type\_page, MAX(ActRegionPrintemps.nbrActions) as nbrActMax

FROM ActRegionPrintemps

JOIN Pages P ON P.Type\_page = ActRegionPrintemps.Type\_page

JOIN Actions A ON P.Id\_page = A.idpage

JOIN ActionsVisites ADV ON ADV.Id\_action = A.idaction

WHERE ADV.Server\_time LIKE ‘%-03-%’

OR WHERE ADV.Server\_time LIKE ‘%-04-%’

OR WHERE ADV.Server\_time LIKE ‘%-05-%’

GROUP BY ActRegionPrintemps.Type\_page;

1. ETE

Vue 1 : CREATE VIEW ActRegionEte AS

SELECT P.type\_page, L.Region1, COUNT(ADV.Id\_action) AS nbrActions

FROM Pages P

JOIN Actions A ON P.Id\_page = A.idpage

JOIN ActionsVisites ADV ON A.idaction = ADV.Id\_action

JOIN Visites V ON V.Id\_visit = ADV.Id\_visit

JOIN Localisations L ON V.Location\_city = L.Id

WHERE ADV.Server\_time LIKE ‘%-06-%’

OR WHERE ADV.Server\_time LIKE ‘%-07-%’

OR WHERE ADV.Server\_time LIKE ‘%-08-%’

GROUP BY P.Type\_page, L.Region1;

Vue 2 : CREATE VIEW MaxActPageEte AS

SELECT ActRegionEte.Type\_page, MAX(ActRegionEte.nbrActions) as nbrActMax

FROM ActRegionEte

JOIN Pages P ON P.Type\_page = ActRegionEte.Type\_page

JOIN Actions A ON P.Id\_page = A.idpage

JOIN ActionsVisites ADV ON ADV.Id\_action = A.idaction

WHERE ADV.Server\_time LIKE ‘%-06-%’

OR WHERE ADV.Server\_time LIKE ‘%-07-%’

OR WHERE ADV.Server\_time LIKE ‘%-08-%’

GROUP BY ActRegionEte.Type\_page;

1. AUTOMNE

Vue 1 : CREATE VIEW ActRegionAutomne AS

SELECT P.type\_page, L.Region1, COUNT(ADV.Id\_action) AS nbrActions

FROM Pages P

JOIN Actions A ON P.Id\_page = A.idpage

JOIN ActionsVisites ADV ON A.idaction = ADV.Id\_action

JOIN Visites V ON V.Id\_visit = ADV.Id\_visit

JOIN Localisations L ON V.Location\_city = L.Id

WHERE ADV.Server\_time LIKE ‘%-09-%’

OR WHERE ADV.Server\_time LIKE ‘%-10-%’

OR WHERE ADV.Server\_time LIKE ‘%-11-%’

GROUP BY P.Type\_page, L.Region1;

Vue 2 : CREATE VIEW MaxActPageAutomne AS

SELECT ActRegionAutomne.Type\_page, MAX(ActRegionAutomne.nbrActions) as nbrActMax

FROM ActRegionAutomne

JOIN Pages P ON P.Type\_page = ActRegionAutomne.Type\_page

JOIN Actions A ON P.Id\_page = A.idpage

JOIN ActionsVisites ADV ON ADV.Id\_action = A.idaction

WHERE ADV.Server\_time LIKE ‘%-09-%’

OR WHERE ADV.Server\_time LIKE ‘%-10-%’

OR WHERE ADV.Server\_time LIKE ‘%-11-%’

GROUP BY ActRegionAutomne.Type\_page;