TRAVEL AGENCY

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I. <u>SCENARIO</u>

WHAT

Travel to Europe offers trips to Europe for a reasonable price.

WHO

The RENOIRS, composed by 4 people, decide to visit European cities for holidays with a maximal budget of 3000€ (hotels, guides, monuments and transport included).

WHY

Consulting an experimented agency, the family avoids scams, doesn't waste time on booking tickets for transport and monuments and on making hotel reservations.

And of course: Doesn't exceed the budget!

WHEN

Any time of the year

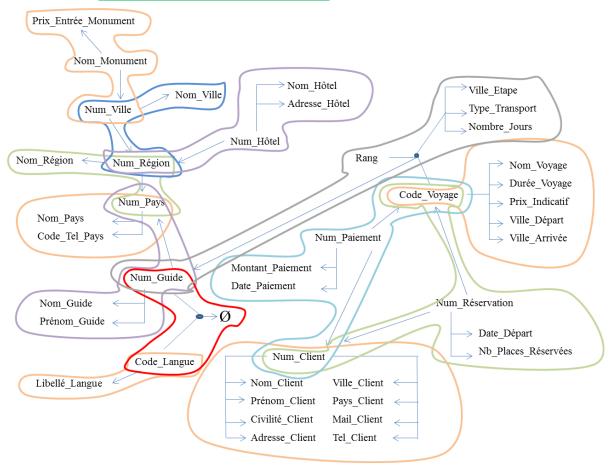
WHERE

In several European cities

II. Creation of the database

1) Graph and relations

a) Graph of functional dependencies



b) Pattern of relations

CLIENT (Num_Client, Nom_client, Prénom_Client, Civilité_Client, Adresse_Client, Ville_Client, Pays_Client, Mail_Client, Tel_Client)

RESERVATION (Num_Réservation, Date_Départ, Nb_Places_Réservées, Num_Client#, Code_Voyage#)

VOYAGE (Code_Voyage, Nom_Voyage, Durée_Voyage, Prix_Indicatif, Ville_Départ, Ville_Arrivée)

PAIEMENT (Num_Paiement, Montant_Paiement, Date_Paiement, Num_Client#, Code_Voyage#)

VOYAGE_ETAPE (Code_Voyage#, Rang, Ville_Etape, Type_Transport, Nombre_Jours, Num_Guide#)

GUIDE (Num Guide, Nom_Guide, Prénom_Guide, Num_Pays#)

GUIDE_HAS_LANGUE (Code_Langue#,Num_Guide#)

LANGUE (Code Langue, Libellé_Langue)

PAYS (Num_Pays, Nom_Pays, Code_Tel_Pays)

REGION (Num_Région, Nom_Région, Num_Pays#)

VILLE (Num_Ville, Nom_Ville, Num_Region#)

HOTEL (Num_Hotel, Num_Région#, Nom_Hotel, Adresse_Hotel)

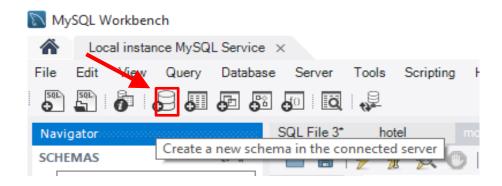
MONUMENT (Nom_Monument, Num_Ville#, Prix_Entrée_Monument)

2) MySQL

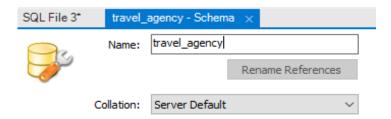
a) Insertion of tables

To create the data base:

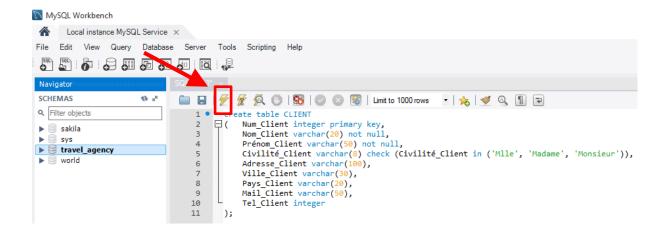
1. Create the pattern on the host



2. Name the pattern

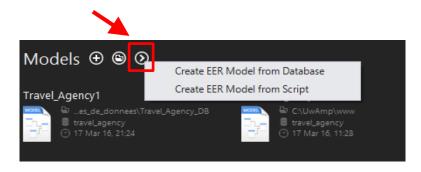


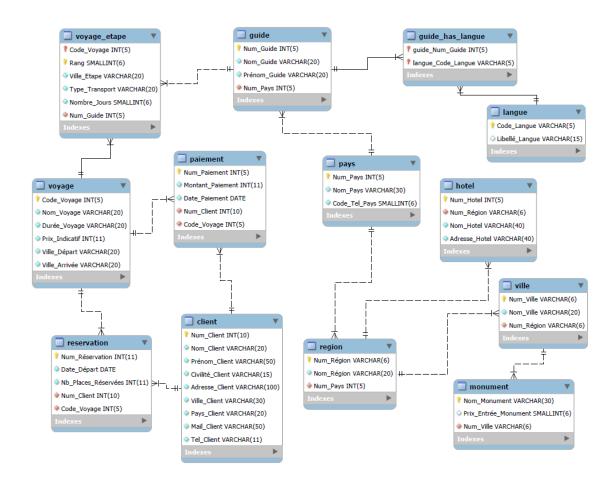
3. Create table in the pattern



There are two possibilities for inserting tables: either run a script or manually create the tables in MySQL. We chose the first option.

b) Creation of the diagram





c) <u>Insertion of values into the data base</u>

Example 1: Insertion of the information regarding the client M. Simon Dupont, living at 3 Rue de Rivoli in Paris, France, hence the e-mail is « simon.dupont@gmail.com »

```
INSERT INTO CLIENT
VALUES (3, "Dupont", "Simon", "Monsieur", "3 Rue de Rivoli", "Paris", "France", "simon.dupont@gmail.com", NULL);
```

Example 2: Insertion of the German language hence the code is « de »

```
insert into LANGUE
values ("de","Allemand");
```

III. PHP

1) Log in/Log out with the database

```
$\text{servername} = "localhost";
$\text{username} = "root";
$\text{password} = "****|";
$\text{dbname} = "travel_agency";

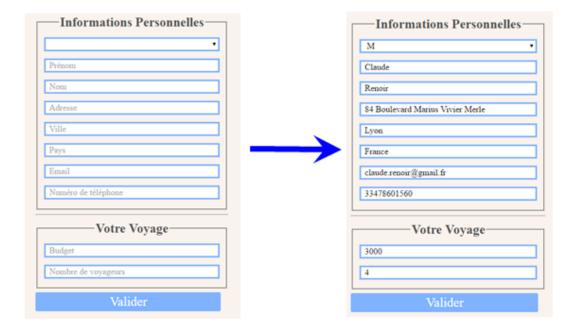
// Create connection
$\text{conn} = new mysqli(\text{\text{servername}}, \text{\text{susername}}, \text{\text{password}}, \text{\text{dbname}});

// Check connection
if (\text{\text{\text{conn}}->connect_error)} {
    die("Connection failed: " . \text{\text{\text{\text{conn}}->connect_error}};
}
$\text{\text{\text{\text{sconn}}->close();}}
```

2) Insertion of values by the user

The client inserts one's personal information into the form. After he has clicked on "Valider", the acquainted data is checked as it is shown in the next code.

For example, the name must only contain letters and spaces, not special characters.



3) Validation of data

```
if ($_POST["civilité"] == "null") {
    $civErr = "Entrez votre civilité.";
    $valid = false;
} else {
    $civilité = test_input($_POST["civilité"]);
}

$nom = test_input($_POST["nom"]);
if (!preg_match("/^[a-zA-Z]*$/", $nom)) {
    $nomErr = "Only letters and white space allowed";
    $valid = false;
}

$prénom = test_input($_POST["prénom"]);
if (!preg_match("/^[a-zA-Z]*$/", $prénom)) {
    $prénomErr = "Only letters and white space allowed";
    $valid = false;
}
```

4) Insertion of data into the data basis after validation

After the data has been checked, it is automatically inserted into the database, as it is shown in the code bellow with the query: "INSERT INTO 'CLIENT '..."

```
if($valid){
   $sql = "INSERT INTO `CLIENT` (`Nom_Client`, `Prénom_Client`,
       VALUES ('{$ SESSION['nom']}', '{$ SESSION['prénom']}',
        if ($conn->query($sql) === TRUE) {
            $last id = $conn->insert id;
            $_SESSION["id"] = $last_id;
            //echo "New record created successfully. Last insert
        } else {
            echo "Error: " . $sql . "<br>" . $conn->error;
        $conn->close();
   $ SESSION['civilité'] = $ POST['civilité'];
   $_SESSION['nom'] = $_POST['nom'];
   $_SESSION['prénom'] = $_POST['prénom'];
   $ SESSION['email'] = $ POST['email'];
   $ SESSION['adresse'] = $ POST['adresse'];
   $ SESSION['ville'] = $ POST['ville'];
   $ SESSION['pays'] = $ POST['pays'];
   $ SESSION['tel'] = $ POST['tel'];
   $_SESSION['budget'] = $_POST['budget'];
   $_SESSION['quantity'] = $_POST['quantity'];
   header('Location: DB_form_resp.php');
```

We can check that the client really exists in the database



5) Summary and choice of the travel and of the departure date

In harmony with the budget and the number of travelers, several choices of travels are proposed to the client.

In this case, the client can choose between three travels (we admit that he already knows the travels' descriptions).



After he has selected a travel and validates, the departure date is checked in such a way that it is superior to the date of the day. This is what the next code illustrates:

```
$date_deb = test_input($_POST["date_deb"]);

date_default_timezone_set("Europe/Paris");
$date = date('m/d/Y h:i:s a', time());
$date1 = strtotime($date_deb);
$date2 = strtotime($date);

if($date1 < $date2)
{
    $diffErr = "Erreur! La date de début est inférieure à la date currente!";
    $valid = false;
}</pre>
```

6) Final summary

In coherence with the travel chosen by the client, a description of every step of the travel is posted in order to check the data and make an eventual reservation.

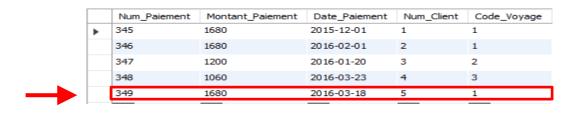


7) Reservation and payment

After he has clicked on "Réserver", we admit that the client has reserved and payed the concerned travel. We can see that a new reservation has been created.



Notice that a new payment has been made here in the same way.



8) Queries

QUERY 1: What are the available travels for the corresponding budget and number of people?

```
$$\sql = "SELECT Nom_Voyage FROM voyage WHERE Prix_Indicatif*'{\$_SESSION['quantity']}' <= '{\$_SESSION['budget']}'";
$result = \$conn->query(\$sql);
```

QUERY 2: What is the price, the departure city, the arrival city, the travel duration for the chosen travel?

REQUETE 3: What is the program of the chosen travel?

IV. Conclusion

The reservation of M. RENOIR Claude ends with the page bellow, same for the payment. We admit that the summary of the reservation has been sent on the acquainted e-mail. Hoping that he is going to have a nice trip: "Wherever he goes, he goes with all his heart".

On vous remercie pour votre réservation Monsieur Renoir Claude.

La feuille récapitulative vous sera envoyé sur votre messagerie. On vous remercie de nous choisir et on vous souhaite un très bon sejour.

