# SQL with Multiple Tables

BY,

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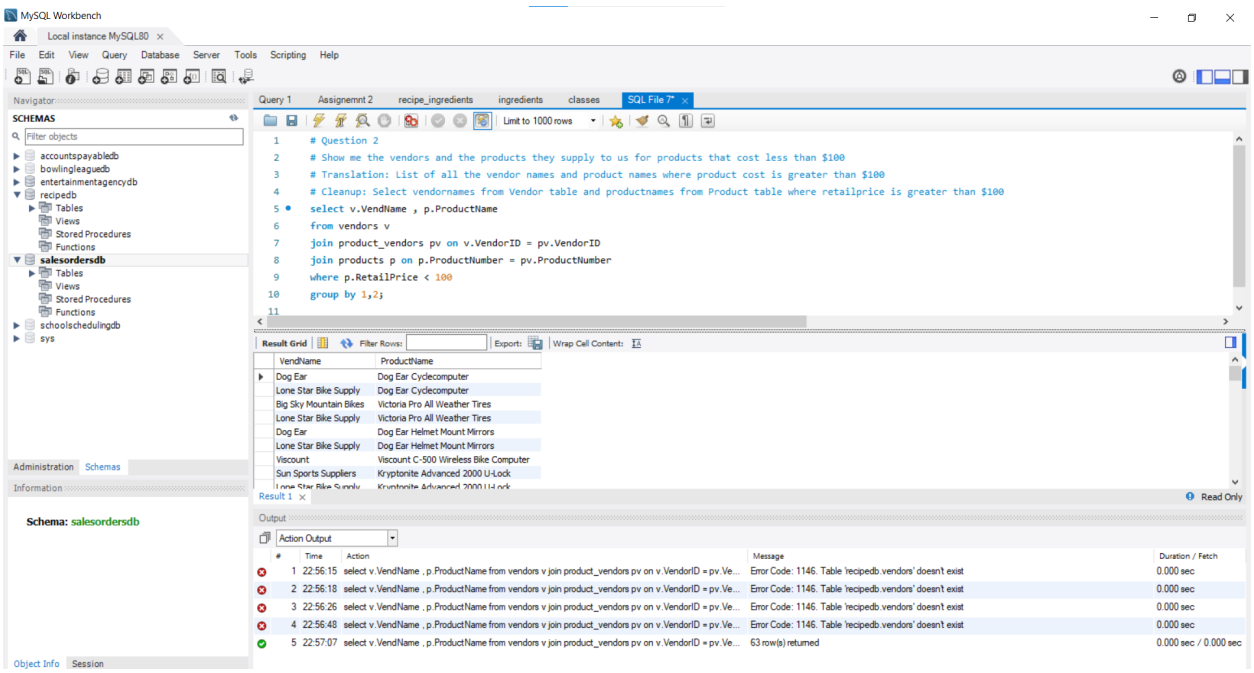
**Question: Show me the vendors and the products they supply to us for products that cost less than $100**

Translation: List of all the vendor names and product names where product cost is less than $100

Cleanup: Select vendornames from Vendor table and productnames from Product table where retailprice is less than $100

Query:

```
select v.VendName , p.ProductName

from vendors v

join product_vendors pv on v.VendorID = pv.VendorID

join products p on p.ProductNumber = pv.ProductNumber

where p.RetailPrice < 100

group by 1,2;
```



**Question: Find the agents and entertainers who live in the same postal code.**

Translation: Select all agents and entertainers who has same postal code

Cleanup: Select agentFirstName, agentLastName from agents and entertainers stage name from entertainers table where zip code is same for both agent and entertainer

Query:

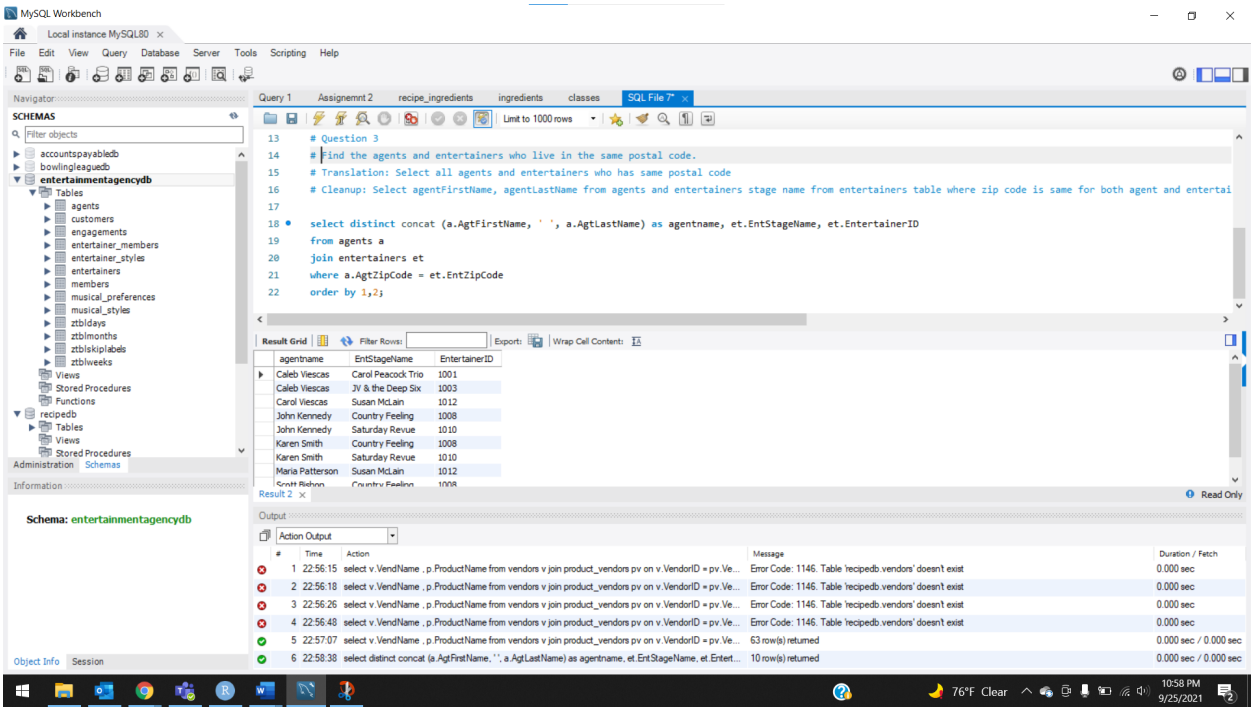
select distinct concat (a.AgtFirstName, ' ', a.AgtLastName) as agentname, et.EntStageName, et.EntertainerID

from agents a

join entertainers et

where a.AgtZipCode = et.EntZipCode

order by 1,2;



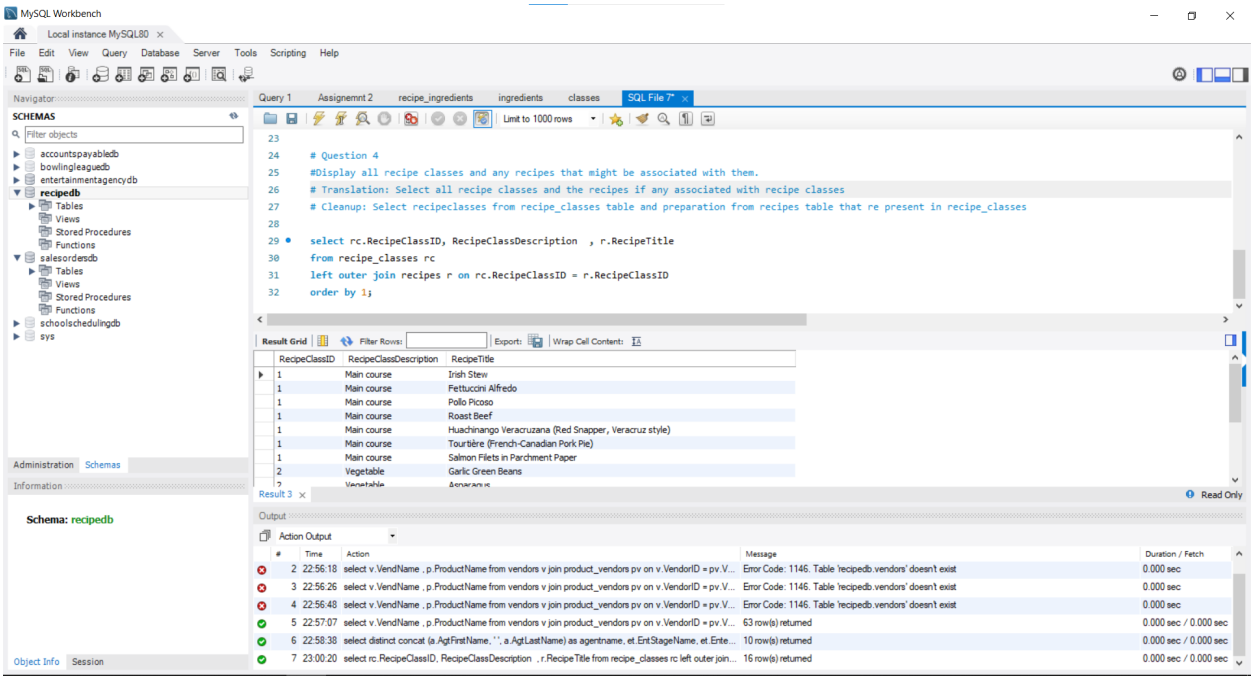
**Question: Display all recipe classes and any recipes that might be associated with them.**

Translation: Select all recipe classes and the recipes if any associated with recipe classes

Cleanup: Select recipeclasses from recipe_classes table and preparation from recipes table that re present in recipe_classes

Query:

```
select rc.RecipeClassID, RecipeClassDescription  , r.RecipeTitle

from recipe_classes rc

left outer join recipes r on rc.RecipeClassID = r.RecipeClassID

order by 1;
```



**Question: What products have never been ordered?**

Translation: Select all the products that are never ordered

Cleanup: Select products from products table where productnumber from order_details table is equal to null after doing left join on products table.

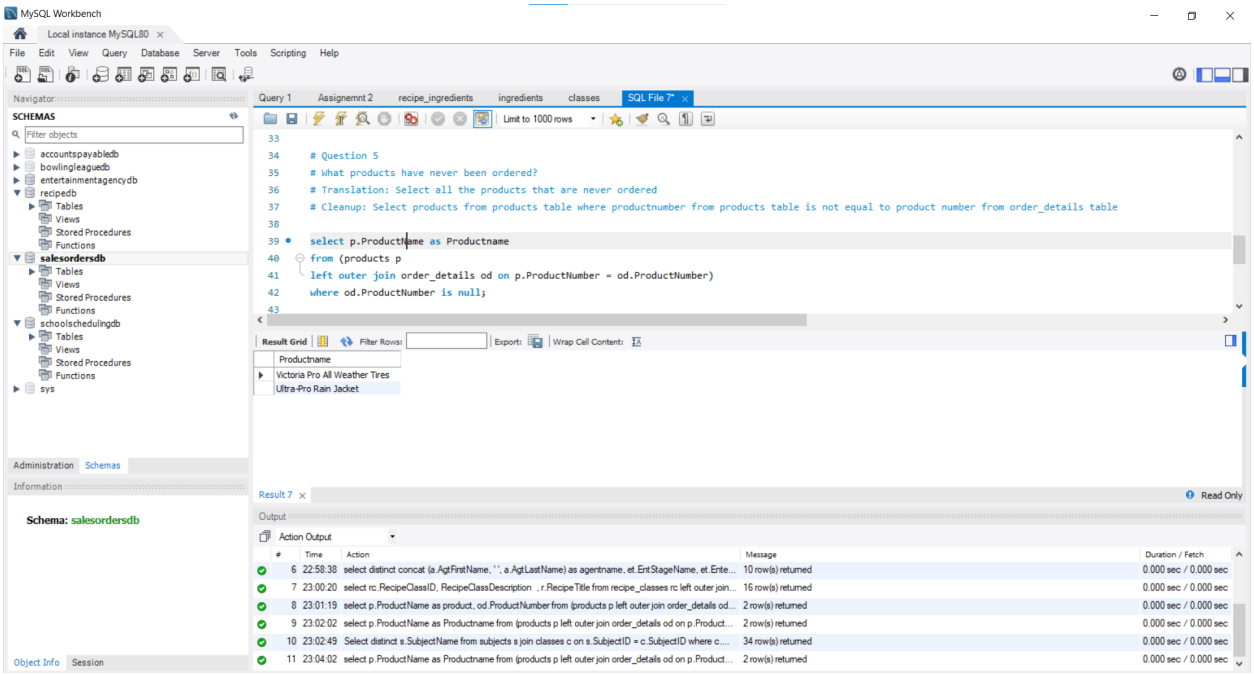
Query:

select p.ProductName as Productname

from (products p

left outer join order_details od on p.ProductNumber = od.ProductNumber)

where od.ProductNumber is null;



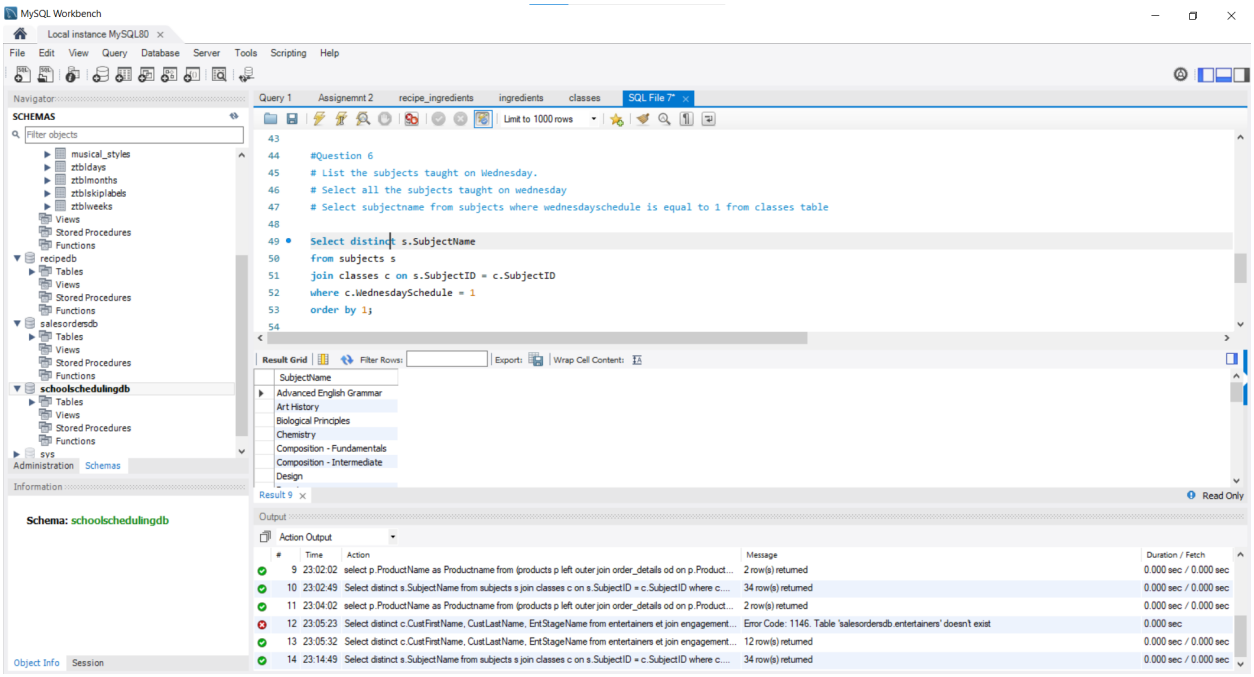
**Question: List the subjects taught on Wednesday.**

Translation: Select all the subjects that are taught on wednesday

Cleanup: Select subjectname from subjects where wednesdayschedule is equal to 1 from classes table

Query:

```
Select distinct s.SubjectName
from subjects s
join classes c on s.SubjectID = c.SubjectID
where c.WednesdaySchedule = 1
order by 1;
```



**Question: Find the entertainers who played engagements for customers Berg or Hallmark**

Translation: Select all entertainers who played engagements for customers Berg or Hallmark

Cleanup: Select EntStageName from entertainers who played engagements for customers Berg or Hallmark from customers table.

Query:

Select distinct c.CustFirstName, CustLastName, EntStageName

from entertainers et

join engagements e on et.EntertainerID = e.EntertainerID

join customers c on c.CustomerID = e.CustomerID

where c.CustLastName in ('Berg', 'Hallmark')

order by 1;