Homework 3: Complex SQL GROUP 9



1. List Customers with No Bookings

TRANSLATION:

Select Customer Id from the Entertainment Agency Database and join it to the Customer ID where Engagement number is stated as null.

CLEAN UP:

Select Customer Id from the Entertainment Agency Database and join it to the Customer ID where Engagement number is stated as null.

2. Display all tournaments and any matches that have been played

TRANSLATION:

Select all the tournaments played in the bowling league from the tournaments table and all the matches played in the bowling league from the tourney_matches table and join the two on the TourneyID column.

CLEAN UP:

Select all the tournaments played in the bowling league from the tournaments table and all the matches played in the bowling league from the tourney_matches table and join the two on the TourneyID column.

- 3 select t.TourneyID, t.TourneyDate, t.TourneyLocation, tm.MatchID from bowlingleaguedb.tournaments t left join bowlingleaguedb.tourney_matches tm on t.TourneyID = tm.TourneyID; esult Grid 🔢 🚷 Filter Rows: Export: Wrap Cell Content: IA TourneyID TourneyDate TourneyLocation MatchID 2012-09-04 Red Rooster Lanes 1 2012-09-04 Red Rooster Lanes 2 2012-09-04 Red Rooster Lanes 1 2012-09-04 Red Rooster Lanes 4 2012-09-11 Thunderbird Lanes 5 2 2012-09-11 Thunderbird Lanes 6 2 2012-09-11 Thunderbird Lanes 2 2012-09-11 Thunderbird Lanes 8 2012-09-18 Bolero Lanes 3 2012-09-18 Bolero Lanes 10 2012-09-18 Bolero Lanes 3 2012-09-18 Bolero Lanes 12 2012-09-25 13 Imperial Lanes 4 2012-09-25 Imperial Lanes 14 4 2012-09-25 Imperial Lanes 15 4 2012-09-25 Imperial Lanes 16 2012-10-02 Sports World Lanes 17 5 2012-10-02 Sports World Lanes 18 2012-10-02 Sports World Lanes 19 5 2012-10-02 Sports World Lanes 20 2012-10-09 Totem Lanes 21 6 2012-10-09 Totem Lanes 22 2012-10-09 Totem Lanes 23 2012-10-09 Totem Lanes 24 2012-10-16 Acapulco Lanes 25 2012-10-16 Acapulco Lanes 26 7 2012-10-16 Acapulco Lanes 27
- 3. Produce a list of customers who like contemporary music together with a list of entertainers who play contemporary music

TRANSLATION:

Select distinct names of customers, names of entertainers and style from the Entertainment Agency Database, join the Engagements table and Customers table with Customer ID. Join the Entertainers table and Engagements table with Entertainment ID. Join the Entertainer_Styles table and the Entertainer table with Entertainment ID where style ID is 6 or 8. Order the customer names in ascending order.

CLEAN UP:

Select distinct names of customers, names of entertainers and style from the Entertainment Agency Database, join the Engagements table and Customers table with Customer ID. Join the Entertainers table and Engagements table with Entertainment ID. Join the Entertainer_Styles table and the Entertainer table with Entertainment ID where style ID is 6 or 8. Order the customer names in ascending order.

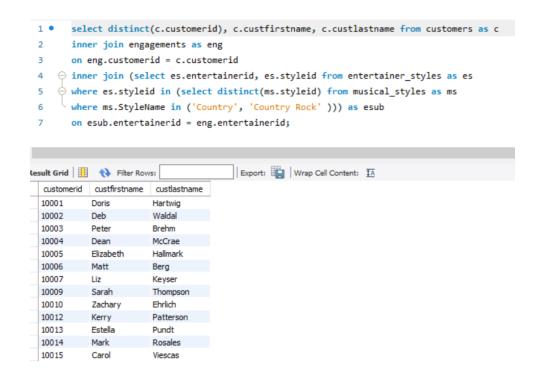
4. List customers who have booked entertainers who play country and rock music

TRANSLATION:

Select distinct features Customer ID, Customer Name, Customer Last Name from Customers table joined with engagements table in engagement customer ID table matching customer ID where style ID is treated as ms and style name is treated as esub table matching Entertainment ID.

CLEAN UP:

Select distinct features Customer ID, Customer Name, Customer Last Name from Customers table joined with engagements table in engagement customer ID table matching customer ID where style ID is treated as ms and style name is treated as esub table matching Entertainment ID.



5. Display students enrolled in a class on Tuesday

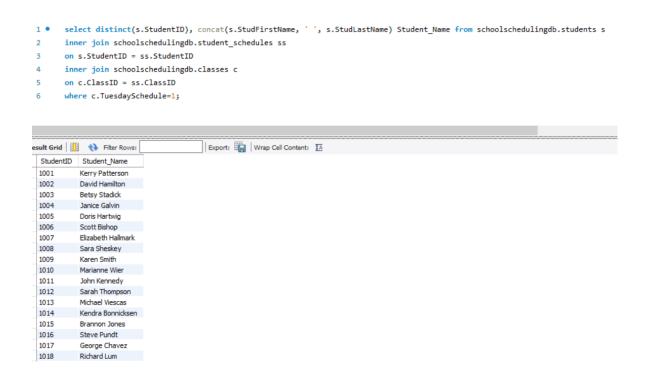
TRANSLATION:

Select student ID, student name from students table joined with student schedules table on student id in student table matching student id in student schedules table joined with classes table on class

id in classes table matching class id in student schedules table where Tuesday schedule in classes table = 1

CLEAN UP:

Select student ID, student name from students table joined with student schedules table on student id in student table matching student id in student schedules table joined with classes table on class id in classes table matching class id in student schedules table where Tuesday schedule in classes table = 1



6. List the ingredients that are used in some recipe where the measurement amount in the recipe is not the default measurement amount

TRANSLATION:

Select ingredient ID, ingredient name from ingredients table joined with recipe ingredients table on ingredient id in ingredients table matching ingredient id in recipe ingredients table

CLEAN UP:

Select ingredient ID, ingredient name from ingredients table joined with recipe ingredients table on ingredient id in ingredients table matching ingredient id in recipe ingredients table

```
inner join recipedb.recipe_ingredients ri
        on i.IngredientID = ri.IngredientID;
                                            | Export: | Wrap Cell Content: 1A
Result Grid 🔠 🙌 Filter Rows:
  IngredientID IngredientName
               Beef
              Onion
               Water
              Guinness Beer
 6
               Carrot
               Tomato
 8
               Jalapeno
               Garlic
 10
              Black Pepper (ground)
  11
               Salt
               Romaine Lettuce
               Salmon
  21
               Olive Oil
  22
               Cucumber
  23
               Mushrooms
  25
               White Wine
  26
               Cheddar Cheese
  28
               Tortilla Chips
  29
               Black Olives
  30
              Green Beans
  31
               Fettuccini Pasta
  32
               Heavy Cream
               Chicken Leg
  38
  45
               Parmesan Cheese
```

select distinct(i.IngredientID), i.IngredientName from recipedb.ingredients i

7. List all vendors and count of products sold by each

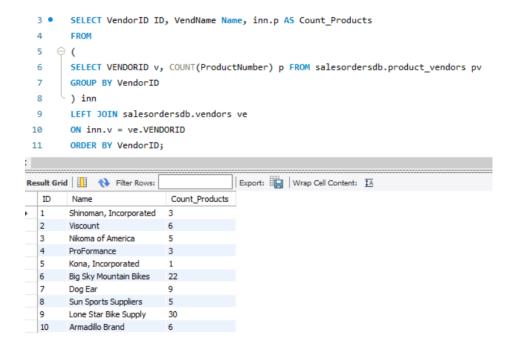
TRANSLATION:

2

Select vendor ID, Vendor name and count of products from table made with selecting vendor ID and count of product number from product vendors grouped by vendor ID joined with vendors table ordered by vendor ID.

CLEAN UP:

Select vendor ID, Vendor name and count of products from table made with selecting vendor ID and count of product number from product vendors grouped by vendor ID joined with vendors table ordered by vendor ID.



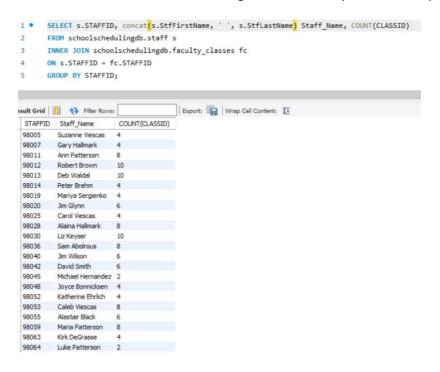
8. List each staff member and the count of products sold by each

TRANSLATION:

Select staff ID, first name and last name and count of class ID from Staff table joined with faculty classes table on staff id in staff table matching staff id in faculty classes. Group by staff ID.

CLEAN UP:

Select staff ID, first name and last name-and count of class ID from Staff table joined with faculty classes table on staff id in staff table matching staff id in faculty classes. Group by staff ID.



9. Show me the subject categories that have fewer than three full professors teaching that subject

TRANSLATION:

Select CategoryID from Subjects table joined with faculty subjects table on subject ID in subjects table matching subject ID in faculty table where count of staff ID is less than 3. Group by category ID

CLEAN UP:

Select CategoryID from Subjects table joined with faculty subjects table on subject ID in subjects table matching subject ID in faculty table where count of staff ID is-less than 3. Group by category ID

