“List customers and the dates they placed an order, sorted in order date sequence.

Use SalesOrdersExample

Select OrderDate, CustFirstName, CustLastName

From Orders

Inner Join Customers On Orders.CustomerID = Customers.CustomerID

Table

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Graphical user interface, text, application, email

Description automatically generated

“List employees and the customers for whom they booked an order.”

Use SalesOrdersExample

Select Customers.CustFirstName, Customers.CustLastName,

Employees.EmpFirstName, Employees.EmpLastName

From Orders

Inner Join Customers ON Orders.CustomerID = Customers.CustomerID

Inner Join Employees On Orders.EmployeeID = Employees.EmployeeID

Order By Employees.EmployeeID;

Graphical user interface, application

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“Display all orders, the products in each order, and the amount owed for each product, in order number  
sequence.

Use SalesOrdersExample

Select OrderNumber, Products.ProductNumber, Products.RetailPrice, Products.ProductName

From Order\_Details

Inner Join Products On Order\_Details.ProductNumber = Products.ProductNumber

Order By Order\_Details.OrderNumber;

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“Show me the vendors and the products they supply to us for products that cost less than $100.”

Use SalesOrdersExample

Select Vendors.VendName, ProductName

From Product\_Vendors

Inner Join Products On (Product\_Vendors.ProductNumber = Products.ProductNumber)

Inner Join Vendors On Product\_Vendors.VendorID = Vendors.VendorID

Where Products.RetailPrice < 100;

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“Show me customers and employees who have the same last name.”

Use SalesOrdersExample

Select Customers.CustFirstName, Customers.CustLastName,

Employees.EmpFirstName, Employees.EmpLastName

From Employees

Inner Join Customers On Employees.EmpLastName = Customers.CustLastName;

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Show me customers and employees who live in the same city.

Use SalesOrdersExample

Select CustFirstName, CustLastName, CustCity

EmpFirstName, EmpLastName, EmpCity

From Customers

Inner Join Employees On CustCity = EmpCity

Graphical user interface, text, application

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“Display agents and the engagement dates they booked, sorted by booking start date.”

Use EntertainmentAgencyExample

Select Agents.AgtFirstName, Agents.AgtLastName,

Engagements.StartDate

From Agents

Inner Join Engagements On Agents.AgentID = Engagements.AgentId

Order By Engagements.StartDate;

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“List customers and the entertainers they booked.”

Use EntertainmentAgencyExample

Select EntStageName,

CustFirstName, CustLastName

From Engagements

Inner Join Customers On Engagements.CustomerID = Customers.CustomerID

Inner Join Entertainers On Engagements.EntertainerID = Entertainers.EntertainerID

Order By Entertainers.EntStageName;

Graphical user interface, text, application, email

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Table, calendar

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“Find the agents and entertainers who live in the same postal code.”

Use EntertainmentAgencyExample

Select Agents.AgtFirstName, Agents.AgtLastName, Agents.AgtZipCode,

Entertainers.EntStageName, Entertainers.EntZipCode

From Agents

Inner Join Entertainers On Agents.AgtZipCode = Entertainers.EntZipCode;

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Graphical user interface, text, application, email

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“Display buildings and all the classrooms in each building.

Use SchoolSchedulingExample

Select BuildingName, ClassRoomID

From Buildings as B

Inner Join Class\_Rooms As CR On B.BuildingCode = Cr.BuildingCode;

Calendar

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Graphical user interface, text, application, email

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“List students and all the classes in which they are currently enrolled.”

Use SchoolSchedulingExample

Select StudLastName, StudFirstName, Student\_Schedules.ClassID

From Student\_Schedules

Inner Join Classes as C On Student\_Schedules.ClassID = C.ClassID

Inner Join Students as Stud On Student\_Schedules.StudentID = Stud.StudentID

Order By StudLastName;

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Text

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“List the faculty staff and the subject each teaches.”

Use SchoolSchedulingExample

Select FS.StaffID, Subjects.SubjectName

From Faculty As F

Inner Join Faculty\_Subjects as FS On F.StaffID = FS.StaffID

Inner Join Subjects On FS.SubjectID = Subjects.SubjectID;

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Text

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“Show me the students who have a grade of 85 or better in art and who also have a grade of 85 or better in  
any computer course.”

USE SchoolSchedulingExample

Select Distinct StudFirstName, StudLastName

From Subjects, Student\_Schedules, Students

Where (CategoryID Like 'ART%' OR CategoryID Like 'CSC%' Or

CategoryID Like 'CIS%') AND Student\_Schedules.Grade >= 85;

Table

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Graphical user interface, text, application, email

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“List the bowling teams and all the team members.

Use BowlingLeagueExample

Select T.TeamName, BowlerFirstName, BowlerLastName

From Teams As T

Inner Join Bowlers On T.TeamID = Bowlers.TeamID;

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Text

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“Display the bowlers, the matches they played in, and the bowler game scores.”

SELECT BS.MatchID, B.BowlerFirstName, B.BowlerLastName AS BowlerName, BS.GameNumber,

BS.RawScore, BS.HandiCapScore

FROM Bowlers As B

INNER JOIN bowler\_scores as BS

On B.BowlerID = BS.BowlerID;

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Graphical user interface, text, email

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“Find the bowlers who live in the same ZIP Code.”

SELECT Concat(B.BowlerFirstName, ' ', B.BowlerLastName) as Bowler1, B.BowlerZip as Bowler1Zip,

Concat(B2.BowlerFirstName, ' ', B2.BowlerLastName) As Bowler2, B.BowlerZip as Bowler2Zip

FROM Bowlers As B

INNER JOIN Bowlers as B2 on B.BowlerID <> B2.BowlerID And B.BowlerZip = B2.BowlerZip;

Graphical user interface, table

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Graphical user interface, text

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“List all the recipes for salads.

SELECT recipes.RecipeTitle

FROM recipes

WHERE RecipeClassID = '4'

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Graphical user interface, text, application, email

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“List all recipes that contain a dairy ingredient.”

Select Distinct R.RecipeTitle As DairyRecipes

From Recipe\_Ingredients As RI

Inner Join Recipes as R On RI.RecipeID = R.RecipeID

Inner Join Ingredients as I On RI.IngredientID = I.IngredientID

And I.IngredientID = 8;

Graphical user interface, table

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Graphical user interface, text, application, email

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“Find the ingredients that use the same default measurement amount.”

SELECT FirstI.I1, FirstI.Measurement, SecondI.I2

FROM (SELECT ingredients.IngredientName AS I1, measurements.MeasurementDescription AS Measurement

FROM ingredients

INNER JOIN measurements On Ingredients.MeasureAmountID = Measurements.MeasureAmountID) AS FirstI

INNER JOIN (SELECT ingredients.IngredientName AS I2, measurements.MeasurementDescription AS Measurement

FROM ingredients

INNER JOIN measurements On Ingredients.MeasureAmountID = Measurements.MeasureAmountID) AS SecondI

ON FirstI.Measurement=SecondI.Measurement

WHERE FirstI.I1<> SecondI.I2

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Graphical user interface, text, application, email

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“Show me the recipes that have beef and garlic.

Use RecipesExample

SELECT Distinct R.RecipeTitle, R.RecipeID

FROM Recipes AS R INNER JOIN Recipe\_Ingredients AS R\_I ON

R.RecipeID = R\_I.RecipeID

WHERE R\_I.IngredientID IN (1, 9); -- beef is 1 garlic is 9

Graphical user interface

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Graphical user interface, text

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