SQL

```
SELECT Station.Station, Count(Tow.BottomDepth) AS [Count], Avg(Tow.BottomDepth) AS Mean,
Avg([BottomDepth])-2*(StDev([BottomDepth])) AS [2 - Standard Devations],
Avg([BottomDepth])+2*(StDev([BottomDepth])) AS [2 + Standard Devations]
FROM Station INNER JOIN Tow ON Station.StationID = Tow.StationID
GROUP BY Station.Station;
```

SQL

```
SELECT IIf([Temp]<[2 - Standard Devations] Or [Temp]>[2 + Standard Devations],Yes,"") AS Outlier,
Year([SampleDate]) AS [Year], Survey.Survey, Survey.SampleDate, Station.Station, Station.Temp, [Edit -
Temp 01].Mean, [Edit - Temp 01].[2 - Standard Devations], [Edit - Temp 01].[2 + Standard Devations]
FROM Survey INNER JOIN ((Station INNER JOIN [Edit - Temp 01] ON Station.Station = [Edit - Temp
01].Station) INNER JOIN Tow ON Station.StationID = Tow.StationID) ON Survey.SurveyID = Station.SurveyID
GROUP BY IIf([Temp]<[2 - Standard Devations] Or [Temp]>[2 + Standard Devations],Yes,""),
Year([SampleDate]), Survey.Survey, Survey.SampleDate, Station.Station, Station.Temp, [Edit - Temp
01].Mean, [Edit - Temp 01].[2 - Standard Devations], [Edit - Temp 01].[2 + Standard Devations]
ORDER BY IIf([Temp]<[2 - Standard Devations] Or [Temp]>[2 + Standard Devations],Yes,"") DESC ,
Year([SampleDate]) DESC , Survey.Survey, Survey.SampleDate, Station.Station;
```

SQL

```
SELECT Year([SampleDate]) AS [Year], Survey.SampleDate, Survey.Survey, Station.Station, Station.Temp
FROM Survey INNER JOIN Station ON Survey.SurveyID = Station.SurveyID
WHERE (((Station.Temp)<=8 Or (Station.Temp)>=27))
ORDER BY Year([SampleDate]) DESC , Survey.SampleDate, Survey.Survey, Station.Station;
```

SQL

```
SELECT IIf([TopEC]<[Lower Bound] Or [TopEC]>[Upper Bound],Yes,"") AS Outlier, Year([SampleDate]) AS
[Year], Survey.Survey, Survey.SampleDate, Station.Station, Station.TopEC, [Edit - Top EC 01].AvgOfTopEC,
[Edit - Top EC 01].[Lower Bound], [Edit - Top EC 01].[Upper Bound]
FROM (Survey INNER JOIN (Station INNER JOIN Tow ON Station.StationID = Tow.StationID) ON
Survey.SurveyID = Station.SurveyID) INNER JOIN [Edit - Top EC 01] ON Station.Station = [Edit - Top EC
01].Station.Station
GROUP BY IIf([TopEC]<[Lower Bound] Or [TopEC]>[Upper Bound],Yes,""), Year([SampleDate]),
Survey.Survey, Survey.SampleDate, Station.Station, Station.TopEC, [Edit - Top EC 01].AvgOfTopEC, [Edit -
Top EC 01].[Lower Bound], [Edit - Top EC 01].[Upper Bound]
ORDER BY IIf([TopEC]<[Lower Bound] Or [TopEC]>[Upper Bound],Yes,"") DESC , Year([SampleDate]) DESC
, Survey.Survey, Survey.SampleDate, Station.Station;
```

SQL

```
SELECT Station.Station, Count(Station.TopEC) AS [Count], qry_TLT_StationSD.AvgOfTopEC,
qry_TLT_StationSD.TopECStDev, [AvgOfTopEC]-2*[TopECStDev] AS [Lower Bound],
[AvgOfTopEC]+2*[TopECStDev] AS [Upper Bound]
FROM Station INNER JOIN qry_TLT_StationSD ON Station.Station=qry_TLT_StationSD.Station
GROUP BY Station.Station, qry_TLT_StationSD.AvgOfTopEC, qry_TLT_StationSD.TopECStDev;
```

SQL

```
SELECT IIf([Turbidity]<[2 - Standard Devations] Or [Turbidity]>[2 + Standard Devations],Yes,"") AS Outlier,
Year([SampleDate]) AS [Year], Survey.Survey, Survey.SampleDate, Station.Station, Station.Turbidity, [Edit -
Turbidity 01].Mean, [Edit - Turbidity 01].[2 - Standard Devations], [Edit - Turbidity 01].[2 + Standard
Devations]
FROM (Survey INNER JOIN (Station INNER JOIN Tow ON Station.StationID = Tow.StationID) ON
Survey.SurveyID = Station.SurveyID) INNER JOIN [Edit - Turbidity 01] ON Station.Station = [Edit - Turbidity
01].Station
GROUP BY IIf([Turbidity]<[2 - Standard Devations] Or [Turbidity]>[2 + Standard Devations],Yes,""),
Year([SampleDate]), Survey.Survey, Survey.SampleDate, Station.Station, Station.Turbidity, [Edit - Turbidity
01].Mean, [Edit - Turbidity 01].[2 - Standard Devations], [Edit - Turbidity 01].[2 + Standard Devations]
ORDER BY IIf([Turbidity]<[2 - Standard Devations] Or [Turbidity]>[2 + Standard Devations],Yes,"") DESC ,
Year([SampleDate]) DESC , Survey.Survey, Survey.SampleDate, Station.Station;
```

SQL

```
INSERT INTO Survey ( SurveyID, SampleDate, Survey, Comments ) IN 'U:\NativeFish\FTP Site Delta Smelt
Folder\20-mm New\20mm_New.mdb'
SELECT Survey.SurveyID, Survey.SampleDate, Survey.Survey, Survey.Comments
FROM Survey
WHERE (((Survey.SampleDate)>#1/1/2018#));
```

SQL

```
INSERT INTO Station ( StationID, SurveyID, Station, LatDeg, LatMin, LatSec, LonDeg, LonMin, LonSec, Temp,
TopEC, BottomEC, Secchi, Turbidity, Comments ) IN 'U:\NativeFish\FTP Site Delta Smelt Folder\20-mm
New\20mm_New.mdb'
SELECT Station.StationID, Station.SurveyID, Station.Station, Station.LatDeg, Station.LatMin, Station.LatSec,
Station.LonDeg, Station.LonMin, Station.LonSec, Station.Temp, Station.TopEC, Station.BottomEC,
Station.Secchi, Station.Turbidity, Station.Comments
FROM Station
WHERE (((Station.StationID)>8618));
```

SQL

```
INSERT INTO Tow ( TowID, StationID, TowNum, TowTime, Tide, BottomDepth, CableOut, Duration ) IN
'U:\NativeFish\FTP Site Delta Smelt Folder\20-mm New\20mm_New.mdb'
SELECT Tow.TowID, Tow.StationID, Tow.TowNum, Tow.TowTime, Tow.Tide, Tow.BottomDepth,
Tow.CableOut, Tow.Duration
FROM Tow
WHERE (((Tow.TowID)>25451));
```

SQL

```
INSERT INTO Gear ( GearID, TowID, GearCode, MeterSerial, MeterStart, MeterEnd, MeterCheck ) IN
'U:\NativeFish\FTP Site Delta Smelt Folder\20-mm New\20mm_New.mdb'
SELECT Gear.GearID, Gear.TowID, Gear.GearCode, Gear.MeterSerial, Gear.MeterStart, Gear.MeterEnd,
Gear.MeterCheck
FROM Gear
WHERE (((Gear.GearID)>33844));
```

SQL

```
INSERT INTO LabSample ( LabSampleID, GearID, SampleCode, LabSampleType, ProcessDate, Processor,
ProcessingTime, Comments ) IN 'U:\NativeFish\FTP Site Delta Smelt Folder\20-mm New\20mm_New.mdb'
SELECT LabSample.LabSampleID, LabSample.GearID, LabSample.SampleCode, LabSample.LabSampleType,
LabSample.ProcessDate, LabSample.Processor, LabSample.ProcessingTime, LabSample.Comments
FROM LabSample
WHERE (((LabSample.LabSampleID)>33239));
```

SQL

```
INSERT INTO FishSample ( FishSampleID, LabSampleID, FishCode, Catch ) IN 'U:\NativeFish\FTP Site Delta
Smelt Folder\20-mm New\20mm_New.mdb'
SELECT FishSample.FishSampleID, FishSample.LabSampleID, FishSample.FishCode, FishSample.Catch
FROM FishSample
WHERE (((FishSample.FishSampleID)>70610));
```

SQL

```
INSERT INTO FishLength ( FishLengthID, FishSampleID, Length, AdFinPresent, ReleasedAlive, FieldRace,
FinalRace ) IN 'U:\NativeFish\FTP Site Delta Smelt Folder\20-mm New\20mm_New.mdb'
SELECT FishLength.FishLengthID, FishLength.FishSampleID, FishLength.Length, FishLength.AdFinPresent,
FishLength.ReleasedAlive, FishLength.FieldRace, FishLength.FinalRace
FROM FishLength
WHERE (((FishLength.FishLengthID)>807474));
```

SQL

```
INSERT INTO MeterCorrections ( StudyYear, MeterSerial, CalibrationDate, kFactor, Notes ) IN
'U:\NativeFish\FTP Site Delta Smelt Folder\20-mm New\20mm_New.mdb'
SELECT MeterCorrections.StudyYear, MeterCorrections.MeterSerial, MeterCorrections.CalibrationDate,
MeterCorrections.kFactor, MeterCorrections.Notes
FROM MeterCorrections
WHERE (((MeterCorrections.StudyYear)=2018));
```

SQL

```
SELECT [qry_AMC_DS CPUE_04].Year, [qry_AMC_DS CPUE_04].SampleDate, [qry_AMC_DS
CPUE_04].qry_AMC_DS_CPUE_01.Survey, [qry_AMC_DS CPUE_04].qry_AMC_DS_CPUE_01.Station,
[Nt]/[CountOfTowNum] AS CPUE
FROM [qry_AMC_DS CPUE_04] INNER JOIN qry_MaxofTow ON ([qry_AMC_DS
CPUE_04].qry_AMC_DS_CPUE_01.Station = qry_MaxofTow.Station) AND ([qry_AMC_DS
CPUE_04].qry_AMC_DS_CPUE_01.Survey = qry_MaxofTow.Survey) AND ([qry_AMC_DS
CPUE_04].SampleDate = qry_MaxofTow.SampleDate)
GROUP BY [qry_AMC_DS CPUE_04].Year, [qry_AMC_DS CPUE_04].SampleDate, [qry_AMC_DS
CPUE_04].qry_AMC_DS_CPUE_01.Survey, [qry_AMC_DS CPUE_04].qry_AMC_DS_CPUE_01.Station,
[Nt]/[CountOfTowNum]
HAVING ((([qry_AMC_DS CPUE_04].Year)=2019) AND (([qry_AMC_DS
CPUE_04].qry_AMC_DS_CPUE_01.Survey)>2 And ([qry_AMC_DS
CPUE_04].qry_AMC_DS_CPUE_01.Survey)<7));
```

SQL

```
SELECT Year([SampleDate]) AS [Year], Survey.SampleDate, Survey.Survey, Station.Station, Tow.TowNum,
Count(FishLength.Length) AS CountOfLength, FishCodes.[Common Name], FishSample.Catch,
FishSample.FishCode
FROM (FishCodes INNER JOIN (((((Survey INNER JOIN Station ON Survey.SurveyID = Station.SurveyID)
INNER JOIN Tow ON Station.StationID = Tow.StationID) INNER JOIN Gear ON Tow.TowID = Gear.TowID)
INNER JOIN LabSample ON Gear.GearID = LabSample.GearID) INNER JOIN FishSample ON
LabSample.LabSampleID = FishSample.LabSampleID) ON FishCodes.[Fish Code] = FishSample.FishCode)
INNER JOIN FishLength ON FishSample.FishSampleID = FishLength.FishSampleID
WHERE (((FishLength.Length)<60))
GROUP BY Year([SampleDate]), Survey.SampleDate, Survey.Survey, Station.Station, Tow.TowNum,
FishCodes.[Common Name], FishSample.Catch, FishSample.FishCode
HAVING (((FishSample.FishCode)=3));
```

SQL

```
SELECT qry_AMC_DS_CPUE_01.Year, qry_AMC_DS_CPUE_01.SampleDate, qry_AMC_DS_CPUE_01.Survey,
qry_AMC_DS_CPUE_01.Station, qry_AMC_DS_CPUE_01.TowNum, IIf([Common Name] Is Null,"No DS
Catch",[Common Name]) AS Species, IIf([CountOfLength] Is Null,0,[CountofLength]) AS [DS Catch],
qry_AMC_DS_CPUE_01.Vt AS [Volume of Water]
FROM qry_AMC_DS_CPUE_01 INNER JOIN [qry_AMC_DS CPUE_02] ON (qry_AMC_DS_CPUE_01.Station =
[qry_AMC_DS CPUE_02].Station) AND (qry_AMC_DS_CPUE_01.Survey = [qry_AMC_DS CPUE_02].Survey)
AND (qry_AMC_DS_CPUE_01.SampleDate = [qry_AMC_DS CPUE_02].SampleDate) AND
(qry_AMC_DS_CPUE_01.Year = [qry_AMC_DS CPUE_02].Year)
GROUP BY qry_AMC_DS_CPUE_01.Year, qry_AMC_DS_CPUE_01.SampleDate, qry_AMC_DS_CPUE_01.Survey,
qry_AMC_DS_CPUE_01.Station, qry_AMC_DS_CPUE_01.TowNum, IIf([Common Name] Is Null,"No DS
Catch",[Common Name]), IIf([CountOfLength] Is Null,0,[CountofLength]), qry_AMC_DS_CPUE_01.Vt;
```

SQL

```
SELECT [qry_AMC_DS CPUE_03].Year, [qry_AMC_DS CPUE_03].SampleDate, [qry_AMC_DS
CPUE_03].qry_AMC_DS_CPUE_01.Survey, [qry_AMC_DS CPUE_03].qry_AMC_DS_CPUE_01.Station,
Sum([qry_AMC_DS CPUE_03].[DS Catch]) AS [SumOfDS Catch], Sum([DS Catch]/[Volume of Water]*10000)
AS Nt
FROM [qry_AMC_DS CPUE_03]
GROUP BY [qry_AMC_DS CPUE_03].Year, [qry_AMC_DS CPUE_03].SampleDate, [qry_AMC_DS
CPUE_03].qry_AMC_DS_CPUE_01.Survey, [qry_AMC_DS CPUE_03].qry_AMC_DS_CPUE_01.Station,
[qry_AMC_DS CPUE_03].qry_AMC_DS_CPUE_01.Station;
```

SQL

```
SELECT Year([SampleDate]) AS [Year], Survey.SampleDate, Survey.Survey, Station.Station, Tow.TowNum,
Gear.GearCode, Gear.MeterSerial, Gear.MeterCheck AS D, 1.51*0.02687*[D] AS Vt
FROM ((Survey INNER JOIN Station ON Survey.SurveyID = Station.SurveyID) INNER JOIN Tow ON
Station.StationID = Tow.StationID) INNER JOIN Gear ON Tow.TowID = Gear.TowID
WHERE (((Gear.GearCode)=2))
ORDER BY Survey.SampleDate, Survey.Survey, Station.Station, Tow.TowNum;
```

SQL

```
SELECT Year([SampleDate]) AS [Year], Survey.Survey, FishSample.FishCode, Avg(FishLength.Length) AS
AvgOfLength
FROM (((Survey INNER JOIN Station ON Survey.SurveyID=Station.SurveyID) INNER JOIN Tow ON
Station.StationID=Tow.StationID) INNER JOIN Gear ON Tow.TowID=Gear.TowID) INNER JOIN ((FishSample
INNER JOIN FishLength ON FishSample.FishSampleID=FishLength.FishSampleID) INNER JOIN LabSample ON
FishSample.LabSampleID=LabSample.LabSampleID) ON Gear.GearID=LabSample.GearID
WHERE (((FishLength.Length)<60))
GROUP BY Year([SampleDate]), Survey.Survey, FishSample.FishCode
HAVING (((FishSample.FishCode)=3))
ORDER BY Year([SampleDate]) DESC , Survey.Survey;
```

SQL

```
SELECT Year([SampleDate]) AS [Year], Survey.Survey, Survey.SampleDate, Station.Station, Tow.TowNum,
Tow.TowTime, Tow.Tide, Tow.BottomDepth, Tow.CableOut, Tow.Duration, Gear.GearCode, Gear.MeterSerial,
Gear.MeterStart, Gear.MeterEnd, Gear.MeterCheck, Station.LatDeg, Station.LatMin, Station.LatSec,
Station.LonDeg, Station.LonMin, Station.LonSec, Station.Temp, Station.TopEC, Station.BottomEC,
Station.Secchi, Station.Turbidity, Survey.Comments, Station.Comments, Gear.GearID
FROM ((Survey INNER JOIN Station ON Survey.SurveyID=Station.SurveyID) INNER JOIN Tow ON
Station.StationID=Tow.StationID) INNER JOIN Gear ON Tow.TowID=Gear.TowID;
```

SQL

```
SELECT Year([SampleDate]) AS [Year], Survey.SampleDate, Survey.Survey, Station.Station, Tow.TowNum,
Tow.TowTime, Tow.Duration, Station.Secchi, Station.TopEC, Station.BottomEC, Station.Temp,
Station.Turbidity, Tow.Tide, Tow.BottomDepth, Tow.CableOut, Gear.MeterSerial, Gear.MeterStart,
Gear.MeterEnd, Gear.MeterCheck, LabSample.LabSampleID, Gear.GearCode
FROM (((Survey INNER JOIN Station ON Survey.SurveyID=Station.SurveyID) INNER JOIN Tow ON
Station.StationID=Tow.StationID) INNER JOIN Gear ON Tow.TowID=Gear.TowID) INNER JOIN LabSample
ON Gear.GearID=LabSample.GearID
WHERE (((Gear.GearCode)=2))
ORDER BY Survey.SampleDate, Station.Station, Tow.TowNum;
```

SQL

```
SELECT [qry_LJD_All Species Catch 01].Year, [qry_LJD_All Species Catch 01].SampleDate, [qry_LJD_All
Species Catch 01].Survey, [qry_LJD_All Species Catch 01].Station, [qry_LJD_All Species Catch 01].TowNum,
[qry_LJD_All Species Catch 01].TowTime, [qry_LJD_All Species Catch 01].Duration, [qry_LJD_All Species
Catch 01].Secchi, [qry_LJD_All Species Catch 01].TopEC, [qry_LJD_All Species Catch 01].BottomEC,
[qry_LJD_All Species Catch 01].Temp, [qry_LJD_All Species Catch 01].Turbidity, [qry_LJD_All Species Catch
01].Tide, [qry_LJD_All Species Catch 01].BottomDepth, [qry_LJD_All Species Catch 01].CableOut,
([kfactor]*[metercheck]*1.51) AS Volume, [qry_LJD_All Species Catch 01].LabSampleID
FROM MeterCorrections INNER JOIN [qry_LJD_All Species Catch 01] ON
(MeterCorrections.StudyYear=[qry_LJD_All Species Catch 01].Year) AND
(MeterCorrections.MeterSerial=[qry_LJD_All Species Catch 01].MeterSerial);
```

SQL

```
TRANSFORM Sum(FishSample.Catch) AS SumOfCatch
SELECT [qry_LJD_All Species Catch 02].Year, [qry_LJD_All Species Catch 02].SampleDate, [qry_LJD_All
Species Catch 02].Survey, [qry_LJD_All Species Catch 02].Station, [qry_LJD_All Species Catch 02].TowNum,
[qry_LJD_All Species Catch 02].Duration, [qry_LJD_All Species Catch 02].Secchi, [qry_LJD_All Species Catch
02].TopEC, [qry_LJD_All Species Catch 02].BottomEC, [qry_LJD_All Species Catch 02].Temp, [qry_LJD_All
Species Catch 02].Turbidity, [qry_LJD_All Species Catch 02].Tide, [qry_LJD_All Species Catch
02].BottomDepth, [qry_LJD_All Species Catch 02].CableOut, [qry_LJD_All Species Catch 02].Volume
FROM ([qry_LJD_All Species Catch 02] LEFT JOIN FishSample ON [qry_LJD_All Species Catch
02].LabSampleID = FishSample.LabSampleID) LEFT JOIN FishCodes ON FishSample.FishCode =
FishCodes.[Fish Code]
GROUP BY [qry_LJD_All Species Catch 02].Year, [qry_LJD_All Species Catch 02].SampleDate, [qry_LJD_All
Species Catch 02].Survey, [qry_LJD_All Species Catch 02].Station, [qry_LJD_All Species Catch 02].TowNum,
[qry_LJD_All Species Catch 02].Duration, [qry_LJD_All Species Catch 02].Secchi, [qry_LJD_All Species Catch
02].TopEC, [qry_LJD_All Species Catch 02].BottomEC, [qry_LJD_All Species Catch 02].Temp, [qry_LJD_All
Species Catch 02].Turbidity, [qry_LJD_All Species Catch 02].Tide, [qry_LJD_All Species Catch
02].BottomDepth, [qry_LJD_All Species Catch 02].CableOut, [qry_LJD_All Species Catch 02].Volume
ORDER BY [qry_LJD_All Species Catch 02].SampleDate, [qry_LJD_All Species Catch 02].Station, [qry_LJD_All
Species Catch 02].TowNum
PIVOT IIf([Common Name] Is Null,"No Catch",[common name]);
```

SQL

```
SELECT [qry_LJD_CPUE 03].Year, [qry_LJD_CPUE 03].[qry_LJD_CPUE 01].Survey, [qry_LJD_CPUE
03].SampleDate, [qry_LJD_CPUE 03].[qry_LJD_CPUE 01].Station, [qry_LJD_CPUE 03].Species,
[qry_LJD_CPUE 03].[Species Catch], Avg([qry_LJD_CPUE 03].CPUE) AS AvgOfCPUE
FROM [qry_LJD_CPUE 03]
GROUP BY [qry_LJD_CPUE 03].Year, [qry_LJD_CPUE 03].[qry_LJD_CPUE 01].Survey, [qry_LJD_CPUE
03].SampleDate, [qry_LJD_CPUE 03].[qry_LJD_CPUE 01].Station, [qry_LJD_CPUE 03].Species,
[qry_LJD_CPUE 03].[Species Catch]
HAVING ((([qry_LJD_CPUE 03].[qry_LJD_CPUE 01].Survey)=3 Or ([qry_LJD_CPUE 03].[qry_LJD_CPUE
01].Survey)=4 Or ([qry_LJD_CPUE 03].[qry_LJD_CPUE 01].Survey)=5 Or ([qry_LJD_CPUE
03].[qry_LJD_CPUE 01].Survey)=6));
```

SQL

```
SELECT Year([SampleDate]) AS [Year], Survey.Survey, Survey.SampleDate, Station.Station, Tow.TowNum,
Gear.MeterSerial, Gear.MeterStart, Gear.MeterEnd, Gear.MeterCheck, ([MeterCheck]*1.51*0.02687) AS
Volume, Gear.GearCode
FROM Survey INNER JOIN ((Station INNER JOIN Tow ON Station.StationID = Tow.StationID) INNER JOIN
Gear ON Tow.TowID = Gear.TowID) ON Survey.SurveyID = Station.SurveyID
WHERE (((Gear.GearCode)=2));
```

SQL

```
SELECT qry_DateStationTowData.SampleDate, qry_DateStationTowData.Station,
qry_DateStationTowData.TowNum, FishCodes.[Common Name], Count(FishLength.Length) AS CountOfLength
FROM ((qry_DateStationTowData INNER JOIN (LabSample INNER JOIN FishSample ON
LabSample.LabSampleID = FishSample.LabSampleID) ON qry_DateStationTowData.GearID =
LabSample.GearID) INNER JOIN FishCodes ON FishSample.FishCode = FishCodes.[Fish Code]) INNER JOIN
FishLength ON FishSample.FishSampleID = FishLength.FishSampleID
WHERE (((FishSample.FishCode)=[Fish code?]) AND ((qry_DateStationTowData.GearCode)=2) AND
((FishLength.Length)<60))
GROUP BY qry_DateStationTowData.SampleDate, qry_DateStationTowData.Station,
qry_DateStationTowData.TowNum, FishCodes.[Common Name];
```

SQL

```
SELECT [qry_LJD_CPUE 01].Year, [qry_LJD_CPUE 01].Survey, [qry_LJD_CPUE 01].SampleDate,
[qry_LJD_CPUE 01].Station, [qry_LJD_CPUE 01].TowNum, [qry_LJD_CPUE 01].MeterSerial, [qry_LJD_CPUE
01].Volume, IIf([common name] Is Null,'no catch',[common name]) AS Species, IIf([countoflength] Is
Null,0,[countoflength]) AS [Species Catch], [Species Catch]/[Volume]*10000 AS CPUE
FROM [qry_LJD_CPUE 01] LEFT JOIN [qry_LJD_CPUE 02] ON ([qry_LJD_CPUE 01].TowNum =
[qry_LJD_CPUE 02].TowNum) AND ([qry_LJD_CPUE 01].Station = [qry_LJD_CPUE 02].Station) AND
([qry_LJD_CPUE 01].SampleDate = [qry_LJD_CPUE 02].SampleDate)
WHERE ((([qry_LJD_CPUE 01].Year)=2016) AND (([qry_LJD_CPUE 01].Survey)=3))
ORDER BY [qry_LJD_CPUE 01].Station, [qry_LJD_CPUE 01].TowNum;
```

SQL

```
SELECT Survey.SampleDate, Survey.Survey, Station.Station, Tow.TowNum, Tow.TowTime,
FishCodes.[Common Name], FishSample.Catch, FishLength.Length
FROM ((((((Survey INNER JOIN Station ON Survey.SurveyID = Station.SurveyID) INNER JOIN Tow ON
Station.StationID = Tow.StationID) INNER JOIN Gear ON Tow.TowID = Gear.TowID) INNER JOIN LabSample
ON Gear.GearID = LabSample.GearID) INNER JOIN FishSample ON LabSample.LabSampleID =
FishSample.LabSampleID) INNER JOIN FishLength ON FishSample.FishSampleID = FishLength.FishSampleID)
INNER JOIN FishCodes ON FishSample.FishCode = FishCodes.[Fish Code]
WHERE (((FishSample.FishCode)=3));
```

SQL

```
SELECT Year([SampleDate]) AS [Year], Survey.Survey, Survey.SampleDate, Station.Station, Tow.TowNum,
FishSample.FishCode, FishLength.Length, Count(FishLength.Length) AS LengthCount
FROM (((((Survey INNER JOIN Station ON Survey.SurveyID = Station.SurveyID) INNER JOIN Tow ON
Station.StationID = Tow.StationID) INNER JOIN Gear ON Tow.TowID = Gear.TowID) INNER JOIN LabSample
ON Gear.GearID = LabSample.GearID) INNER JOIN FishSample ON LabSample.LabSampleID =
FishSample.LabSampleID) INNER JOIN FishLength ON FishSample.FishSampleID = FishLength.FishSampleID
GROUP BY Year([SampleDate]), Survey.Survey, Survey.SampleDate, Station.Station, Tow.TowNum,
FishSample.FishCode, FishLength.Length, Gear.GearCode
HAVING (((FishSample.FishCode)=2) AND ((Gear.GearCode)=2))
ORDER BY Year([SampleDate]), Survey.SampleDate, Station.Station, Tow.TowNum, FishLength.Length;
```

SQL

```
SELECT [qry_LJD_ExpandedLengths 01].Year, [qry_LJD_ExpandedLengths 01].Survey,
[qry_LJD_ExpandedLengths 01].SampleDate, [qry_LJD_ExpandedLengths 01].Station,
[qry_LJD_ExpandedLengths 01].TowNum, [qry_LJD_ExpandedLengths 01].FishCode,
[qry_LJD_ExpandedLengths 01].Catch, [qry_LJD_Expanded Lengths 02].Length, [qry_LJD_Expanded Lengths
02].LengthCount, [qry_LJD_ExpandedLengths 01].[Expansion Factor], ([Lengthcount]*[Expansion Factor]) AS
[Expanded#ofLengths]
FROM [qry_LJD_ExpandedLengths 01] INNER JOIN [qry_LJD_Expanded Lengths 02] ON
([qry_LJD_ExpandedLengths 01].TowNum = [qry_LJD_Expanded Lengths 02].TowNum) AND
([qry_LJD_ExpandedLengths 01].Station = [qry_LJD_Expanded Lengths 02].Station) AND
([qry_LJD_ExpandedLengths 01].SampleDate = [qry_LJD_Expanded Lengths 02].SampleDate)
WHERE ((([qry_LJD_ExpandedLengths 01].Year)=2017) AND (([qry_LJD_ExpandedLengths 01].Survey)<7))
ORDER BY [qry_LJD_ExpandedLengths 01].SampleDate, [qry_LJD_ExpandedLengths 01].Station,
[qry_LJD_ExpandedLengths 01].TowNum, [qry_LJD_Expanded Lengths 02].Length;
```

SQL

```
SELECT Year([SampleDate]) AS [Year], Survey.Survey, Survey.SampleDate, Station.Station, Tow.TowNum,
FishSample.FishCode, FishSample.Catch, Count(FishLength.Length) AS CountOfLength,
([catch]/[countoflength]) AS [Expansion Factor]
FROM ((((Survey INNER JOIN Station ON Survey.SurveyID = Station.SurveyID) INNER JOIN Tow ON
Station.StationID = Tow.StationID) INNER JOIN (Gear INNER JOIN LabSample ON Gear.GearID =
LabSample.GearID) ON Tow.TowID = Gear.TowID) INNER JOIN FishSample ON LabSample.LabSampleID =
FishSample.LabSampleID) INNER JOIN FishLength ON FishSample.FishSampleID = FishLength.FishSampleID
GROUP BY Year([SampleDate]), Survey.Survey, Survey.SampleDate, Station.Station, Tow.TowNum,
FishSample.FishCode, FishSample.Catch, Gear.GearCode
HAVING (((FishSample.FishCode)=2) AND ((Gear.GearCode)=2));
```

SQL

```
SELECT Survey.SampleDate, Station.Station, Tow.TowNum, FishSample.FishCode, FishSample.Catch
FROM (((Survey INNER JOIN (Station INNER JOIN Tow ON Station.StationID = Tow.StationID) ON
Survey.SurveyID = Station.SurveyID) INNER JOIN Gear ON Tow.TowID = Gear.TowID) INNER JOIN
LabSample ON Gear.GearID = LabSample.GearID) INNER JOIN FishSample ON LabSample.LabSampleID =
FishSample.LabSampleID
WHERE (((FishSample.FishCode)=2));
```

SQL

```
SELECT Year([SampleDate]) AS [Year], Survey.Survey, Survey.SampleDate, Station.Station,
Count(Tow.TowNum) AS CountOfTowNum
FROM Survey INNER JOIN (Tow INNER JOIN Station ON Tow.StationID=Station.StationID) ON
Survey.SurveyID=Station.SurveyID
GROUP BY Year([SampleDate]), Survey.Survey, Survey.SampleDate, Station.Station;
```

SQL

```
SELECT Station.Station, Avg(Gear.MeterCheck) AS AvgOfMeterCheck, Count(Station.Station) AS CountOfStation
FROM (Station INNER JOIN Tow ON Station.StationID = Tow.StationID) INNER JOIN Gear ON Tow.TowID =
Gear.TowID
WHERE (((Tow.Duration)=10) AND ((Gear.GearCode)=2))
GROUP BY Station.Station
ORDER BY Station.Station;
```

SQL

```
SELECT ZooSample.LabSampleID, LabSample.LabSampleID
FROM LabSample RIGHT JOIN ZooSample ON LabSample.LabSampleID = ZooSample.LabSampleID
WHERE (((ZooSample.LabSampleID) Is Not Null) AND ((LabSample.LabSampleID) Is Null));
```

SQL

```
SELECT qry_RemoveLabSampleID_01.ZooSample.LabSampleID INTO LabSampleIDToBeDeleted
FROM qry_RemoveLabSampleID_01;
```

SQL

```
SELECT Year([SampleDate]) AS [Year], Survey.Survey, Survey.SampleDate, Station.Station,
FishCodes.[Common Name], FishSample.FishCode, Sum(FishSample.Catch) AS SumOfCatch
FROM (((((Survey INNER JOIN Station ON Survey.SurveyID=Station.SurveyID) INNER JOIN Tow ON
Station.StationID=Tow.StationID) INNER JOIN Gear ON Tow.TowID=Gear.TowID) INNER JOIN LabSample
ON Gear.GearID=LabSample.GearID) INNER JOIN FishSample ON
LabSample.LabSampleID=FishSample.LabSampleID) INNER JOIN FishCodes ON
FishSample.FishCode=FishCodes.[Fish Code]
GROUP BY Year([SampleDate]), Survey.Survey, Survey.SampleDate, Station.Station, FishCodes.[Common
Name], FishSample.FishCode
HAVING (((FishSample.FishCode)=2 Or (FishSample.FishCode)=3));
```

SQL

```
SELECT qry_SmeltCatchTable_DS02.Year, qry_SmeltCatchTable_DS02.qry_MaxofTow.Survey, [20mm Station
Sort Order Look Up].Station, qry_SmeltCatchTable_DS02.Date, IIf([Tows Processed] Is Null,0,[Tows
Processed]) AS [# Tows Processed], IIf([tows processed] Is Null,"Not Yet Processed",[species]) AS Species_,
qry_SmeltCatchTable_DS02.[Total Catch], qry_SmeltCatchTable_DS02.[Min Length],
qry_SmeltCatchTable_DS02.[Max Length], qry_SmeltCatchTable_DS02.[Avg Length]
FROM [20mm Station Sort Order Look Up] LEFT JOIN qry_SmeltCatchTable_DS02 ON [20mm Station Sort
Order Look Up].Station = qry_SmeltCatchTable_DS02.qry_MaxofTow.Station;
```

SQL

```
SELECT qry_SmeltCatchTable_01.Year, qry_SmeltCatchTable_01.Survey,
qry_SmeltCatchTable_01.SampleDate, qry_SmeltCatchTable_01.Station, qry_SmeltCatchTable_01.[Common
Name], qry_SmeltCatchTable_01.SumOfCatch, qry_SmeltCatchTable_Lengths.MinOfLength,
qry_SmeltCatchTable_Lengths.MaxOfLength, qry_SmeltCatchTable_Lengths.AvgOfLength
FROM qry_SmeltCatchTable_01 INNER JOIN qry_SmeltCatchTable_Lengths ON
(qry_SmeltCatchTable_01.FishCode=qry_SmeltCatchTable_Lengths.FishCode) AND
(qry_SmeltCatchTable_01.Station=qry_SmeltCatchTable_Lengths.Station) AND
(qry_SmeltCatchTable_01.SampleDate=qry_SmeltCatchTable_Lengths.SampleDate)
WHERE (((qry_SmeltCatchTable_Lengths.FishCode)=3));
```

SQL

```
SELECT qry_MaxofTow.Year, qry_MaxofTow.Survey, qry_MaxofTow.Station, qry_MaxofTow.SampleDate AS
[Date], qry_MaxofTow.CountOfTowNum AS [Tows Processed], IIf([Common Name] Is Null,"No Delta Smelt
Catch",[Common Name]) AS Species, IIf([SumOfCatch] Is Null,0,[SumOfCatch]) AS [Total Catch],
qry_SmeltCatchTable_DS01.MinOfLength AS [Min Length], qry_SmeltCatchTable_DS01.MaxOfLength AS [Max
Length], qry_SmeltCatchTable_DS01.AvgOfLength AS [Avg Length]
FROM qry_MaxofTow LEFT JOIN qry_SmeltCatchTable_DS01 ON
(qry_MaxofTow.SampleDate=qry_SmeltCatchTable_DS01.SampleDate) AND
(qry_MaxofTow.Station=qry_SmeltCatchTable_DS01.qry_SmeltCatchTable_01.Station)
WHERE (((qry_MaxofTow.Year)=[What Year?]) AND ((qry_MaxofTow.Survey)=[What Survey?]))
ORDER BY qry_MaxofTow.Year, qry_MaxofTow.Survey, qry_MaxofTow.Station;
```

SQL

```
SELECT Year([SampleDate]) AS [Year], Survey.Survey, Survey.SampleDate, Station.Station,
FishSample.FishCode, Min(FishLength.Length) AS MinOfLength, Max(FishLength.Length) AS MaxOfLength,
Avg(FishLength.Length) AS AvgOfLength
FROM (((Survey INNER JOIN Station ON Survey.SurveyID=Station.SurveyID) INNER JOIN Tow ON
Station.StationID=Tow.StationID) INNER JOIN Gear ON Tow.TowID=Gear.TowID) INNER JOIN ((FishSample
INNER JOIN LabSample ON FishSample.LabSampleID=LabSample.LabSampleID) INNER JOIN FishLength ON
FishSample.FishSampleID=FishLength.FishSampleID) ON Gear.GearID=LabSample.GearID
GROUP BY Year([SampleDate]), Survey.Survey, Survey.SampleDate, Station.Station, FishSample.FishCode
HAVING (((FishSample.FishCode)=2 Or (FishSample.FishCode)=3));
```

SQL

```
SELECT qry_SmeltCatchTable_01.Year, qry_SmeltCatchTable_01.Survey,
qry_SmeltCatchTable_01.SampleDate, qry_SmeltCatchTable_01.Station, qry_SmeltCatchTable_01.[Common
Name], qry_SmeltCatchTable_01.SumOfCatch, qry_SmeltCatchTable_Lengths.MinOfLength,
qry_SmeltCatchTable_Lengths.MaxOfLength, qry_SmeltCatchTable_Lengths.AvgOfLength
FROM qry_SmeltCatchTable_01 INNER JOIN qry_SmeltCatchTable_Lengths ON
(qry_SmeltCatchTable_01.SampleDate=qry_SmeltCatchTable_Lengths.SampleDate) AND
(qry_SmeltCatchTable_01.Station=qry_SmeltCatchTable_Lengths.Station) AND
(qry_SmeltCatchTable_01.FishCode=qry_SmeltCatchTable_Lengths.FishCode)
WHERE (((qry_SmeltCatchTable_Lengths.FishCode)=2));
```

SQL

```
SELECT qry_MaxofTow.Year, qry_MaxofTow.Survey AS Survey1, qry_MaxofTow.Station AS Station1,
qry_MaxofTow.SampleDate AS [Date], qry_MaxofTow.CountOfTowNum AS [Tows Processed], IIf([Common
Name] Is Null,"No Longfin Smelt Catch",[Common Name]) AS Species, IIf([SumOfCatch] Is
Null,0,[SumOfCatch]) AS [Total Catch], qry_SmeltCatchTable_LFS01.MinOfLength AS [Min Length],
qry_SmeltCatchTable_LFS01.MaxOfLength AS [Max Length], qry_SmeltCatchTable_LFS01.AvgOfLength AS
[Avg Length]
FROM qry_MaxofTow LEFT JOIN qry_SmeltCatchTable_LFS01 ON
(qry_MaxofTow.SampleDate=qry_SmeltCatchTable_LFS01.SampleDate) AND
(qry_MaxofTow.Station=qry_SmeltCatchTable_LFS01.qry_SmeltCatchTable_01.Station)
WHERE (((qry_MaxofTow.Year)=[What Year?]) AND ((qry_MaxofTow.Survey)=[What Survey?]))
ORDER BY qry_MaxofTow.Year, qry_MaxofTow.Survey, qry_MaxofTow.Station;
```

SQL

```
SELECT qry_SmeltCatchTable_LFS02.Year, qry_SmeltCatchTable_LFS02.Survey1, [20mm Station Sort Order
Look Up].Station, qry_SmeltCatchTable_LFS02.Date, IIf([Tows Processed] Is Null,0,[Tows Processed]) AS [#
Tows Processed], IIf([tows processed] Is Null,"Not Yet Processed",[species]) AS Species_,
qry_SmeltCatchTable_LFS02.[Total Catch], qry_SmeltCatchTable_LFS02.[Min Length],
qry_SmeltCatchTable_LFS02.[Max Length], qry_SmeltCatchTable_LFS02.[Avg Length]
FROM [20mm Station Sort Order Look Up] LEFT JOIN qry_SmeltCatchTable_LFS02 ON [20mm Station Sort
Order Look Up].Station = qry_SmeltCatchTable_LFS02.Station1;
```

SQL

```
SELECT qry_TLT_ZooPP02.Year, Sum(qry_TLT_ZooPP02.TotalCount) AS SumOfTotalCount
FROM qry_TLT_ZooPP02
GROUP BY qry_TLT_ZooPP02.Year
ORDER BY qry_TLT_ZooPP02.Year;
```

SQL

```
SELECT qry_TLT_CBVolume_01.Year, qry_TLT_CBVolume_01.SampleDate, qry_TLT_CBVolume_01.Survey,
qry_TLT_CBVolume_01.Station, qry_TLT_CBVolume_01.TowNum, qry_TLT_CBVolume_01.GearCode,
qry_TLT_CBVolume_01.Gear, 0.010101*[kFactor]*[MeterCheck] AS Volume
FROM qry_TLT_CBVolume_01 INNER JOIN MeterCorrections ON
(qry_TLT_CBVolume_01.Year=MeterCorrections.StudyYear) AND
(qry_TLT_CBVolume_01.MeterSerial=MeterCorrections.MeterSerial);
```

SQL

```
SELECT Year([SampleDate]) AS [Year], Survey.SampleDate, Survey.Survey, Station.Station, Tow.TowNum,
Gear.GearCode, GearCodesLkp.Gear, Gear.MeterSerial, Gear.MeterCheck
FROM (((Survey INNER JOIN Station ON Survey.SurveyID=Station.SurveyID) INNER JOIN Tow ON
Station.StationID=Tow.StationID) INNER JOIN Gear ON Tow.TowID=Gear.TowID) INNER JOIN GearCodesLkp
ON Gear.GearCode=GearCodesLkp.GearCode
WHERE (((Gear.GearCode)=1));
```

SQL

```
SELECT [qry_TLT_DS CPUE 04].Year, [qry_TLT_DS CPUE 04].[qry_TLT_DS CPUE 01].Survey, [qry_TLT_DS
CPUE 04].SampleDate, [qry_TLT_DS CPUE 04].[qry_TLT_DS CPUE 01].Station, [Nt]/[CountOfTowNum] AS
CPUE
FROM [qry_TLT_DS CPUE 04] INNER JOIN qry_MaxofTow ON ([qry_TLT_DS CPUE 04].SampleDate =
qry_MaxofTow.SampleDate) AND ([qry_TLT_DS CPUE 04].[qry_TLT_DS CPUE 01].Station =
qry_MaxofTow.Station)
GROUP BY [qry_TLT_DS CPUE 04].Year, [qry_TLT_DS CPUE 04].[qry_TLT_DS CPUE 01].Survey, [qry_TLT_DS
CPUE 04].SampleDate, [qry_TLT_DS CPUE 04].[qry_TLT_DS CPUE 01].Station, [Nt]/[CountOfTowNum];
```

SQL

```
SELECT Survey.SampleDate, Survey.Survey, Station.Station, Tow.TowNum, Gear.GearCode, Gear.MeterSerial,
Gear.MeterCheck AS D, 1.51*0.02687*[D] AS Vt
FROM ((Survey INNER JOIN Station ON Survey.SurveyID=Station.SurveyID) INNER JOIN Tow ON
Station.StationID=Tow.StationID) INNER JOIN Gear ON Tow.TowID=Gear.TowID
WHERE (((Gear.GearCode)=2))
ORDER BY Survey.SampleDate, Survey.Survey, Station.Station, Tow.TowNum;
```

SQL

```
SELECT Survey.SampleDate, Station.Station, Tow.TowNum, Count(FishLength.Length) AS CountOfLength,
FishCodes.[Common Name], FishSample.Catch, FishSample.FishCode
FROM ((((((Survey INNER JOIN Station ON Survey.SurveyID=Station.SurveyID) INNER JOIN Tow ON
Station.StationID=Tow.StationID) INNER JOIN Gear ON Tow.TowID=Gear.TowID) INNER JOIN LabSample
ON Gear.GearID=LabSample.GearID) INNER JOIN FishSample ON
LabSample.LabSampleID=FishSample.LabSampleID) INNER JOIN FishCodes ON
FishSample.FishCode=FishCodes.[Fish Code]) INNER JOIN FishLength ON
FishSample.FishSampleID=FishLength.FishSampleID
WHERE (((FishLength.Length)<60))
GROUP BY Survey.SampleDate, Station.Station, Tow.TowNum, FishCodes.[Common Name], FishSample.Catch,
FishSample.FishCode
HAVING (((FishSample.FishCode)=3));
```

SQL

```
SELECT [qry_TLT_DS CPUE 01].SampleDate, [qry_TLT_DS CPUE 01].Survey, [qry_TLT_DS CPUE 01].Station,
[qry_TLT_DS CPUE 01].TowNum, IIf([Common Name] Is Null,"No DS Catch",[Common Name]) AS Species,
IIf([CountOfLength] Is Null,0,[CountofLength]) AS [DS Catch], [qry_TLT_DS CPUE 01].Vt AS [Volume of
Water]
FROM [qry_TLT_DS CPUE 01] LEFT JOIN [qry_TLT_DS CPUE 02] ON ([qry_TLT_DS CPUE
01].SampleDate=[qry_TLT_DS CPUE 02].SampleDate) AND ([qry_TLT_DS CPUE 01].Station=[qry_TLT_DS
CPUE 02].Station) AND ([qry_TLT_DS CPUE 01].TowNum=[qry_TLT_DS CPUE 02].TowNum)
GROUP BY [qry_TLT_DS CPUE 01].SampleDate, [qry_TLT_DS CPUE 01].Survey, [qry_TLT_DS CPUE
01].Station, [qry_TLT_DS CPUE 01].TowNum, IIf([Common Name] Is Null,"No DS Catch",[Common Name]),
IIf([CountOfLength] Is Null,0,[CountofLength]), [qry_TLT_DS CPUE 01].Vt;
```

SQL

```
SELECT Year([SampleDate]) AS [Year], [qry_TLT_DS CPUE 03].[qry_TLT_DS CPUE 01].Survey, [qry_TLT_DS
CPUE 03].SampleDate, [qry_TLT_DS CPUE 03].[qry_TLT_DS CPUE 01].Station, Sum([qry_TLT_DS CPUE
03].[DS Catch]) AS [SumOfDS Catch], Sum([DS Catch]/[Volume of Water]*10000) AS Nt
FROM [qry_TLT_DS CPUE 03]
GROUP BY Year([SampleDate]), [qry_TLT_DS CPUE 03].[qry_TLT_DS CPUE 01].Survey, [qry_TLT_DS CPUE
03].SampleDate, [qry_TLT_DS CPUE 03].[qry_TLT_DS CPUE 01].Station;
```

SQL

```
SELECT Year(qry_TLT_ExpandedLengths02.SampleDate) AS [Year],
qry_TLT_ExpandedLengths02.SampleDate, qry_TLT_ExpandedLengths02.Survey,
qry_TLT_ExpandedLengths02.Station, qry_TLT_ExpandedLengths02.TowNum,
qry_TLT_ExpandedLengths02.FishCode, qry_TLT_ExpandedLengths02.Length, Max([CountOfLength]*[Length
Count Factor]) AS [Expanded Length Catch], Max([CountOfLength]*1) AS [Unexpanded Length Catch]
FROM qry_TLT_ExpandedLengths01 INNER JOIN qry_TLT_ExpandedLengths02 ON
(qry_TLT_ExpandedLengths01.TowNum = qry_TLT_ExpandedLengths02.TowNum) AND
(qry_TLT_ExpandedLengths01.Station = qry_TLT_ExpandedLengths02.Station) AND
(qry_TLT_ExpandedLengths01.SampleDate = qry_TLT_ExpandedLengths02.SampleDate)
GROUP BY Year(qry_TLT_ExpandedLengths02.SampleDate), qry_TLT_ExpandedLengths02.SampleDate,
qry_TLT_ExpandedLengths02.Survey, qry_TLT_ExpandedLengths02.Station,
qry_TLT_ExpandedLengths02.TowNum, qry_TLT_ExpandedLengths02.FishCode,
qry_TLT_ExpandedLengths02.Length;
```

SQL

```
SELECT Year([qry_TLT_ExpandedLengths_AllSp_02].[SampleDate]) AS [Year],
qry_TLT_ExpandedLengths_AllSp_02.SampleDate, qry_TLT_ExpandedLengths_AllSp_02.Survey,
qry_TLT_ExpandedLengths_AllSp_02.Station, qry_TLT_ExpandedLengths_AllSp_02.TowNum,
qry_TLT_ExpandedLengths_AllSp_02.FishCode, qry_TLT_ExpandedLengths_AllSp_02.Length,
Max([CountOfLength]*[Length Count Factor]) AS [Expanded Length Catch], Max([CountOfLength]*1) AS
[Unexpanded Length Catch]
FROM qry_TLT_ExpandedLengths_AllSp_01 INNER JOIN qry_TLT_ExpandedLengths_AllSp_02 ON
(qry_TLT_ExpandedLengths_AllSp_02.FishCode = qry_TLT_ExpandedLengths_AllSp_01.FishCode) AND
(qry_TLT_ExpandedLengths_AllSp_02.TowNum = qry_TLT_ExpandedLengths_AllSp_01.TowNum) AND
(qry_TLT_ExpandedLengths_AllSp_02.Station = qry_TLT_ExpandedLengths_AllSp_01.Station) AND
(qry_TLT_ExpandedLengths_AllSp_01.SampleDate = qry_TLT_ExpandedLengths_AllSp_02.SampleDate)
GROUP BY Year([qry_TLT_ExpandedLengths_AllSp_02].[SampleDate]),
qry_TLT_ExpandedLengths_AllSp_02.SampleDate, qry_TLT_ExpandedLengths_AllSp_02.Survey,
qry_TLT_ExpandedLengths_AllSp_02.Station, qry_TLT_ExpandedLengths_AllSp_02.TowNum,
qry_TLT_ExpandedLengths_AllSp_02.FishCode, qry_TLT_ExpandedLengths_AllSp_02.Length;
```

SQL

```
SELECT Survey.SampleDate, Station.Station, Tow.TowNum, FishSample.FishCode, Count(FishLength.Length)
AS [Length Count], FishSample.Catch, [Catch]/[Length Count] AS [Length Count Factor], [Length Count
Factor]*[Length Count] AS [Expanded Count]
FROM (((((Survey INNER JOIN Station ON Survey.SurveyID = Station.SurveyID) INNER JOIN Tow ON
Station.StationID = Tow.StationID) INNER JOIN Gear ON Tow.TowID = Gear.TowID) INNER JOIN LabSample
ON Gear.GearID = LabSample.GearID) INNER JOIN FishSample ON LabSample.LabSampleID =
FishSample.LabSampleID) INNER JOIN FishLength ON FishSample.FishSampleID = FishLength.FishSampleID
GROUP BY Survey.SampleDate, Station.Station, Tow.TowNum, FishSample.FishCode, FishSample.Catch;
```

SQL

```
SELECT Survey.SampleDate, Survey.Survey, Station.Station, Tow.TowNum, FishSample.FishCode,
FishLength.Length, Count(FishLength.Length) AS CountOfLength
FROM (((((Survey INNER JOIN Station ON Survey.SurveyID = Station.SurveyID) INNER JOIN Tow ON
Station.StationID = Tow.StationID) INNER JOIN Gear ON Tow.TowID = Gear.TowID) INNER JOIN LabSample
ON Gear.GearID = LabSample.GearID) INNER JOIN FishSample ON LabSample.LabSampleID =
FishSample.LabSampleID) INNER JOIN FishLength ON FishSample.FishSampleID = FishLength.FishSampleID
GROUP BY Survey.SampleDate, Survey.Survey, Station.Station, Tow.TowNum, FishSample.FishCode,
FishLength.Length;
```

SQL

```
SELECT Survey.SampleDate, Station.Station, Tow.TowNum, FishSample.FishCode, Count(FishLength.Length)
AS [Length Count], FishSample.Catch, [Catch]/[Length Count] AS [Length Count Factor], [Length Count
Factor]*[Length Count] AS [Expanded Count]
FROM (((((Survey INNER JOIN Station ON Survey.SurveyID = Station.SurveyID) INNER JOIN Tow ON
Station.StationID = Tow.StationID) INNER JOIN Gear ON Tow.TowID = Gear.TowID) INNER JOIN LabSample
ON Gear.GearID = LabSample.GearID) INNER JOIN FishSample ON LabSample.LabSampleID =
FishSample.LabSampleID) INNER JOIN FishLength ON FishSample.FishSampleID = FishLength.FishSampleID
GROUP BY Survey.SampleDate, Station.Station, Tow.TowNum, FishSample.FishCode, FishSample.Catch
HAVING (((FishSample.FishCode)=2));
```

SQL

```
SELECT Survey.SampleDate, Survey.Survey, Station.Station, Tow.TowNum, FishSample.FishCode,
FishLength.Length, Count(FishLength.Length) AS CountOfLength
FROM (((((Survey INNER JOIN Station ON Survey.SurveyID = Station.SurveyID) INNER JOIN Tow ON
Station.StationID = Tow.StationID) INNER JOIN Gear ON Tow.TowID = Gear.TowID) INNER JOIN LabSample
ON Gear.GearID = LabSample.GearID) INNER JOIN FishSample ON LabSample.LabSampleID =
FishSample.LabSampleID) INNER JOIN FishLength ON FishSample.FishSampleID = FishLength.FishSampleID
GROUP BY Survey.SampleDate, Survey.Survey, Station.Station, Tow.TowNum, FishSample.FishCode,
FishLength.Length
HAVING (((FishSample.FishCode)=2));
```

SQL

```
SELECT Year([SampleDate]) AS [Year], Survey.SampleDate, Survey.Survey, Station.Station,
tbl_TLT_Stations.Code, tbl_TLT_Stations.Type, Tow.TowNum, Gear.GearCode, LabSample.SampleCode,
LabSample.LabSampleType
FROM ((((Survey INNER JOIN Station ON Survey.SurveyID = Station.SurveyID) INNER JOIN Tow ON
Station.StationID = Tow.StationID) INNER JOIN Gear ON Tow.TowID = Gear.TowID) INNER JOIN LabSample
ON Gear.GearID = LabSample.GearID) INNER JOIN tbl_TLT_Stations ON Station.Station =
tbl_TLT_Stations.Station
WHERE (((Year([SampleDate]))<2018) AND ((Survey.Survey)>9) AND ((tbl_TLT_Stations.Code)=1) AND
((Gear.GearCode)=1) AND ((LabSample.SampleCode)=1) AND ((LabSample.LabSampleType)="zoo"))
ORDER BY Year([SampleDate]), Survey.Survey, Station.Station, Tow.TowNum;
```

SQL

```
SELECT [qry_TLT_DS CPUE].Year, [qry_TLT_DS CPUE].[qry_TLT_DS CPUE 01].Survey, [qry_TLT_DS
CPUE].SampleDate, tbl_TLT_IndexStations.Station, [qry_TLT_DS CPUE].CPUE, [CPUE]+1 AS [CPUE+1],
Log([CPUE]+1)/Log(10) AS [Log10 Trans]
FROM [qry_TLT_DS CPUE] INNER JOIN tbl_TLT_IndexStations ON [qry_TLT_DS CPUE].[qry_TLT_DS CPUE
01].Station = tbl_TLT_IndexStations.Station;
```

SQL

```
SELECT qry_TLT_Index01.Year, qry_TLT_Index01.[qry_TLT_DS CPUE 01].Survey,
Avg(qry_TLT_Index01.[Log10 Trans]) AS [AvgOfLog10 Trans], (10^(Avg([Log10 Trans])))-1 AS Geomean,
qry_AvgDSLength.AvgOfLength
FROM qry_TLT_Index01 INNER JOIN qry_AvgDSLength ON (qry_TLT_Index01.Year =
qry_AvgDSLength.Year) AND (qry_TLT_Index01.[qry_TLT_DS CPUE 01].Survey = qry_AvgDSLength.Survey)
GROUP BY qry_TLT_Index01.Year, qry_TLT_Index01.[qry_TLT_DS CPUE 01].Survey,
qry_AvgDSLength.AvgOfLength;
```

SQL

```
SELECT FishCodes.[Common Name], Month([SampleDate]) AS [Month],
qry_TLT_ExpandedLengths_AllSp.qry_TLT_ExpandedLengths_AllSp_02.Survey,
qry_TLT_ExpandedLengths_AllSp.Length, Sum(qry_TLT_ExpandedLengths_AllSp.[Expanded Length Catch])
AS [SumOfExpanded Length Catch]
FROM qry_TLT_ExpandedLengths_AllSp INNER JOIN FishCodes ON
qry_TLT_ExpandedLengths_AllSp.FishCode = FishCodes.[Fish Code]
GROUP BY FishCodes.[Common Name], Month([SampleDate]),
qry_TLT_ExpandedLengths_AllSp.qry_TLT_ExpandedLengths_AllSp_02.Survey,
qry_TLT_ExpandedLengths_AllSp.Length
ORDER BY FishCodes.[Common Name], Month([SampleDate]),
qry_TLT_ExpandedLengths_AllSp.qry_TLT_ExpandedLengths_AllSp_02.Survey,
qry_TLT_ExpandedLengths_AllSp.Length;
```

SQL

```
SELECT FishSample.FishCode, FishCodes.[Common Name], FishLength.Length
FROM FishCodes INNER JOIN ((((((Survey INNER JOIN Station ON Survey.SurveyID = Station.SurveyID)
INNER JOIN Tow ON Station.StationID = Tow.StationID) INNER JOIN Gear ON Tow.TowID = Gear.TowID)
INNER JOIN LabSample ON Gear.GearID = LabSample.GearID) INNER JOIN FishSample ON
LabSample.LabSampleID = FishSample.LabSampleID) INNER JOIN FishLength ON FishSample.FishSampleID
= FishLength.FishSampleID) ON FishCodes.[Fish Code] = FishSample.FishCode
WHERE (((FishSample.FishCode)=17 Or (FishSample.FishCode)=8 Or (FishSample.FishCode)=40 Or
(FishSample.FishCode)=51 Or (FishSample.FishCode)=22 Or (FishSample.FishCode)=10))
ORDER BY FishCodes.[Common Name], FishLength.Length;
```

SQL

```
SELECT qry_TLT_ExpandedLengths.SampleDate,
qry_TLT_ExpandedLengths.qry_TLT_ExpandedLengths02.Station, qry_TLT_ExpandedLengths.TowNum,
qry_TLT_ExpandedLengths.FishCode, Sum(qry_TLT_ExpandedLengths.[Expanded Length Catch]) AS
[SumOfExpanded Length Catch]
FROM qry_TLT_ExpandedLengths
GROUP BY qry_TLT_ExpandedLengths.SampleDate,
qry_TLT_ExpandedLengths.qry_TLT_ExpandedLengths02.Station, qry_TLT_ExpandedLengths.TowNum,
qry_TLT_ExpandedLengths.FishCode;
```

SQL

```
SELECT [qry_TLT_DS CPUE 01].SampleDate, [qry_TLT_DS CPUE 01].Station, [qry_TLT_DS CPUE
01].TowNum, IIf([SumOfExpanded Length Catch] Is Null,0,[SumOfExpanded Length Catch]) AS [LFS Catch],
[qry_TLT_DS CPUE 01].Vt AS [Volume of Water]
FROM [qry_TLT_DS CPUE 01] LEFT JOIN [qry_TLT_LFS CPUE 02] ON ([qry_TLT_DS CPUE
01].TowNum=[qry_TLT_LFS CPUE 02].TowNum) AND ([qry_TLT_DS CPUE 01].SampleDate=[qry_TLT_LFS
CPUE 02].SampleDate) AND ([qry_TLT_DS CPUE 01].Station=[qry_TLT_LFS CPUE
02].qry_TLT_ExpandedLengths02.Station)
GROUP BY [qry_TLT_DS CPUE 01].SampleDate, [qry_TLT_DS CPUE 01].Station, [qry_TLT_DS CPUE
01].TowNum, IIf([SumOfExpanded Length Catch] Is Null,0,[SumOfExpanded Length Catch]), [qry_TLT_DS
CPUE 01].Vt;
```

SQL

```
SELECT Gear.GearCode, Tow.Duration, Avg(Gear.MeterCheck) AS AvgOfMeterCheck, StDev(IIf([MeterCheck]
Is Not Null,CStr([MeterCheck]))) AS StDev
FROM Tow INNER JOIN Gear ON Tow.TowID=Gear.TowID
GROUP BY Gear.GearCode, Tow.Duration
HAVING (((Tow.Duration)=2.5 Or (Tow.Duration)=5 Or (Tow.Duration)=10));
```

SQL

```
SELECT Station.Station, Avg(Station.TopEC) AS AvgOfTopEC, StDev(IIf([TopEC] Is Not Null,CStr([TopEC])))
AS TopECStDev, Avg(Station.BottomEC) AS AvgOfBottomEC, StDev(IIf([BottomEC] Is Not
Null,CStr([BottomEC]))) AS BotECStDev, Avg(Station.Secchi) AS AvgOfSecchi, StDev(IIf([Secchi] Is Not
Null,CStr([Secchi]))) AS SecchiStDev
FROM Station
GROUP BY Station.Station;
```

SQL

```
SELECT [qry_TLT_WS CPUE 04].Year, [qry_TLT_WS CPUE 04].[qry_TLT_DS CPUE 01].Survey, [qry_TLT_WS
CPUE 04].SampleDate, [qry_TLT_WS CPUE 04].[qry_TLT_DS CPUE 01].Station, [Nt]/[CountOfTowNum] AS
CPUE
FROM [qry_TLT_WS CPUE 04] INNER JOIN qry_MaxofTow ON ([qry_TLT_WS CPUE 04].SampleDate =
qry_MaxofTow.SampleDate) AND ([qry_TLT_WS CPUE 04].[qry_TLT_DS CPUE 01].Station =
qry_MaxofTow.Station)
GROUP BY [qry_TLT_WS CPUE 04].Year, [qry_TLT_WS CPUE 04].[qry_TLT_DS CPUE 01].Survey,
[qry_TLT_WS CPUE 04].SampleDate, [qry_TLT_WS CPUE 04].[qry_TLT_DS CPUE 01].Station,
[Nt]/[CountOfTowNum];
```

SQL

```
SELECT Survey.SampleDate, Station.Station, Tow.TowNum, Count(FishLength.Length) AS CountOfLength,
FishCodes.[Common Name], FishSample.Catch, FishSample.FishCode
FROM ((((((Survey INNER JOIN Station ON Survey.SurveyID=Station.SurveyID) INNER JOIN Tow ON
Station.StationID=Tow.StationID) INNER JOIN Gear ON Tow.TowID=Gear.TowID) INNER JOIN LabSample
ON Gear.GearID=LabSample.GearID) INNER JOIN FishSample ON
LabSample.LabSampleID=FishSample.LabSampleID) INNER JOIN FishCodes ON
FishSample.FishCode=FishCodes.[Fish Code]) INNER JOIN FishLength ON
FishSample.FishSampleID=FishLength.FishSampleID
GROUP BY Survey.SampleDate, Station.Station, Tow.TowNum, FishCodes.[Common Name], FishSample.Catch,
FishSample.FishCode
HAVING (((FishSample.FishCode)=22));
```

SQL

```
SELECT [qry_TLT_DS CPUE 01].SampleDate, [qry_TLT_DS CPUE 01].Survey, [qry_TLT_DS CPUE 01].Station,
[qry_TLT_DS CPUE 01].TowNum, IIf([Common Name] Is Null,"No WS Catch",[Common Name]) AS Species,
IIf([CountOfLength] Is Null,0,[CountofLength]) AS [WS Catch], [qry_TLT_DS CPUE 01].Vt AS [Volume of
Water]
FROM [qry_TLT_DS CPUE 01] LEFT JOIN [qry_TLT_WS CPUE 02] ON ([qry_TLT_DS CPUE
01].TowNum=[qry_TLT_WS CPUE 02].TowNum) AND ([qry_TLT_DS CPUE 01].Station=[qry_TLT_WS CPUE
02].Station) AND ([qry_TLT_DS CPUE 01].SampleDate=[qry_TLT_WS CPUE 02].SampleDate)
GROUP BY [qry_TLT_DS CPUE 01].SampleDate, [qry_TLT_DS CPUE 01].Survey, [qry_TLT_DS CPUE
01].Station, [qry_TLT_DS CPUE 01].TowNum, IIf([Common Name] Is Null,"No WS Catch",[Common Name]),
IIf([CountOfLength] Is Null,0,[CountofLength]), [qry_TLT_DS CPUE 01].Vt;
```

SQL

```
SELECT Year([SampleDate]) AS [Year], [qry_TLT_WS CPUE 03].[qry_TLT_DS CPUE 01].Survey, [qry_TLT_WS
CPUE 03].SampleDate, [qry_TLT_WS CPUE 03].[qry_TLT_DS CPUE 01].Station, Sum([qry_TLT_WS CPUE
03].[WS Catch]) AS [SumOfWS Catch], Sum([WS Catch]/[Volume of Water]*10000) AS Nt
FROM [qry_TLT_WS CPUE 03]
GROUP BY Year([SampleDate]), [qry_TLT_WS CPUE 03].[qry_TLT_DS CPUE 01].Survey, [qry_TLT_WS CPUE
03].SampleDate, [qry_TLT_WS CPUE 03].[qry_TLT_DS CPUE 01].Station;
```

SQL

```
SELECT qry_TLT_ZoopCPUE_04.Year, qry_TLT_ZoopCPUE_04.SampleDate,
qry_TLT_ZoopCPUE_04.qry_TLT_ZoopCPUE_01.Survey,
qry_TLT_ZoopCPUE_04.qry_TLT_ZoopCPUE_01.Station, qry_TLT_ZoopCPUE_04.TowNum,
qry_TLT_ZoopCPUE_04.Volume, qry_TLT_ZoopCPUE_04.Dilution, qry_TLT_ZoopCPUE_04.[Zoo Code],
qry_TLT_ZoopCPUE_04.[Common Name], [CPUE]*[CarbonWeight] AS BPUE
FROM qry_TLT_ZoopCPUE_04 INNER JOIN ZooCarbonWeightsLookUp ON qry_TLT_ZoopCPUE_04.[Zoo Code]
= ZooCarbonWeightsLookUp.ZooCode;
```

SQL

```
SELECT Year([SampleDate]) AS [Year], Survey.Survey, Station.Station, Gear.GearCode,
LabSample.LabSampleType, LabSample.LabSampleID, ZooSample.CellsProcessed, Max(ZooCount.CellNumber)
AS MaxOfCellNumber
FROM (((((Survey LEFT JOIN Station ON Survey.SurveyID = Station.SurveyID) LEFT JOIN Tow ON
Station.StationID = Tow.StationID) LEFT JOIN Gear ON Tow.TowID = Gear.TowID) LEFT JOIN LabSample ON
Gear.GearID = LabSample.GearID) LEFT JOIN ZooSample ON LabSample.LabSampleID =
ZooSample.LabSampleID) LEFT JOIN ZooCount ON ZooSample.LabSampleID = ZooCount.LabSampleID
GROUP BY Year([SampleDate]), Survey.Survey, Station.Station, Gear.GearCode, LabSample.LabSampleType,
LabSample.LabSampleID, ZooSample.CellsProcessed
HAVING (((Year([SampleDate]))=2016) AND ((Gear.GearCode)=1))
ORDER BY LabSample.LabSampleID;
```

SQL

```
SELECT Year([SampleDate]) AS [Year], Survey.SampleDate, Survey.Survey, Station.Station, Tow.TowNum,
Gear.GearCode, LabSample.SampleCode, LabSample.LabSampleType, ZooSample.Dilution,
ZooSample.CellsProcessed, ZooCount.CellNumber, ZooCodes.[Zoo Code], ZooCodes.[Common Name],
ZooCount.ZooCount, Station.Temp, Station.TopEC, Station.BottomEC, Station.Secchi, Station.Turbidity,
Tow.TowTime, Tow.Tide, Tow.BottomDepth, Tow.Duration, Gear.MeterCheck
FROM (((((Survey LEFT JOIN Station ON Survey.SurveyID = Station.SurveyID) LEFT JOIN Tow ON
Station.StationID = Tow.StationID) LEFT JOIN Gear ON Tow.TowID = Gear.TowID) LEFT JOIN LabSample ON
Gear.GearID = LabSample.GearID) LEFT JOIN ZooSample ON LabSample.LabSampleID =
ZooSample.LabSampleID) LEFT JOIN (ZooCount LEFT JOIN ZooCodes ON ZooCount.ZooCode =
ZooCodes.[Zoo Code]) ON ZooSample.LabSampleID = ZooCount.LabSampleID
WHERE (((Gear.GearCode)=1) AND ((LabSample.SampleCode)=1) AND
((LabSample.LabSampleType)="zoo"));
```

SQL

```
SELECT qry_TLT_ZoopCPUE_01.Year, qry_TLT_ZoopCPUE_01.SampleDate, qry_TLT_ZoopCPUE_01.Survey,
qry_TLT_ZoopCPUE_01.Station, qry_TLT_ZoopCPUE_01.TowNum, qry_TLT_ZoopCPUE_01.GearCode,
qry_TLT_ZoopCPUE_01.SampleCode, qry_TLT_ZoopCPUE_01.LabSampleType,
qry_TLT_ZoopCPUE_01.Dilution, qry_TLT_CBVolume.Volume, qry_TLT_ZoopCPUE_01.CellsProcessed,
qry_TLT_ZoopCPUE_01.CellNumber, qry_TLT_ZoopCPUE_01.[Zoo Code], qry_TLT_ZoopCPUE_01.[Common
Name], ([ZooCount]*[Dilution])/[Volume] AS CellCPUE, qry_TLT_ZoopCPUE_01.Temp,
qry_TLT_ZoopCPUE_01.TopEC, qry_TLT_ZoopCPUE_01.BottomEC, qry_TLT_ZoopCPUE_01.Secchi,
qry_TLT_ZoopCPUE_01.Turbidity, qry_TLT_ZoopCPUE_01.TowTime, qry_TLT_ZoopCPUE_01.Tide,
qry_TLT_ZoopCPUE_01.BottomDepth, qry_TLT_ZoopCPUE_01.Duration, qry_TLT_ZoopCPUE_01.MeterCheck
FROM qry_TLT_ZoopCPUE_01 LEFT JOIN qry_TLT_CBVolume ON (qry_TLT_ZoopCPUE_01.SampleDate =
qry_TLT_CBVolume.SampleDate) AND (qry_TLT_ZoopCPUE_01.Survey = qry_TLT_CBVolume.Survey) AND
(qry_TLT_ZoopCPUE_01.TowNum = qry_TLT_CBVolume.TowNum) AND (qry_TLT_ZoopCPUE_01.Station =
qry_TLT_CBVolume.Station);
```

SQL

```
SELECT qry_TLT_ZoopCPUE_02.Year, qry_TLT_ZoopCPUE_02.SampleDate,
qry_TLT_ZoopCPUE_02.qry_TLT_ZoopCPUE_01.Survey,
qry_TLT_ZoopCPUE_02.qry_TLT_ZoopCPUE_01.Station, qry_TLT_ZoopCPUE_02.TowNum,
qry_TLT_ZoopCPUE_02.Dilution, qry_TLT_ZoopCPUE_02.Volume, qry_TLT_ZoopCPUE_02.CellsProcessed,
qry_TLT_ZoopCPUE_02.[Zoo Code], qry_TLT_ZoopCPUE_02.[Common Name],
Sum(qry_TLT_ZoopCPUE_02.CellCPUE) AS SumOfCellCPUE, qry_TLT_ZoopCPUE_02.Temp,
qry_TLT_ZoopCPUE_02.TopEC, qry_TLT_ZoopCPUE_02.BottomEC, qry_TLT_ZoopCPUE_02.Secchi,
qry_TLT_ZoopCPUE_02.Turbidity, qry_TLT_ZoopCPUE_02.TowTime, qry_TLT_ZoopCPUE_02.Tide,
qry_TLT_ZoopCPUE_02.BottomDepth, qry_TLT_ZoopCPUE_02.Duration, qry_TLT_ZoopCPUE_02.MeterCheck
FROM qry_TLT_ZoopCPUE_02
GROUP BY qry_TLT_ZoopCPUE_02.Year, qry_TLT_ZoopCPUE_02.SampleDate,
qry_TLT_ZoopCPUE_02.qry_TLT_ZoopCPUE_01.Survey,
qry_TLT_ZoopCPUE_02.qry_TLT_ZoopCPUE_01.Station, qry_TLT_ZoopCPUE_02.TowNum,
qry_TLT_ZoopCPUE_02.Dilution, qry_TLT_ZoopCPUE_02.Volume, qry_TLT_ZoopCPUE_02.CellsProcessed,
qry_TLT_ZoopCPUE_02.[Zoo Code], qry_TLT_ZoopCPUE_02.[Common Name], qry_TLT_ZoopCPUE_02.Temp,
qry_TLT_ZoopCPUE_02.TopEC, qry_TLT_ZoopCPUE_02.BottomEC, qry_TLT_ZoopCPUE_02.Secchi,
qry_TLT_ZoopCPUE_02.Turbidity, qry_TLT_ZoopCPUE_02.TowTime, qry_TLT_ZoopCPUE_02.Tide,
qry_TLT_ZoopCPUE_02.BottomDepth, qry_TLT_ZoopCPUE_02.Duration, qry_TLT_ZoopCPUE_02.MeterCheck;
```

SQL

```
SELECT qry_TLT_ZoopCPUE_03.Year, qry_TLT_ZoopCPUE_03.SampleDate,
qry_TLT_ZoopCPUE_03.qry_TLT_ZoopCPUE_01.Survey,
qry_TLT_ZoopCPUE_03.qry_TLT_ZoopCPUE_01.Station, qry_TLT_ZoopCPUE_03.TowNum,
qry_TLT_ZoopCPUE_03.Volume, qry_TLT_ZoopCPUE_03.Dilution, qry_TLT_ZoopCPUE_03.[Zoo Code],
qry_TLT_ZoopCPUE_03.[Common Name], [SumOfCellCPUE]/[CellsProcessed] AS CPUE,
qry_TLT_ZoopCPUE_03.Temp, qry_TLT_ZoopCPUE_03.TopEC, qry_TLT_ZoopCPUE_03.BottomEC,
qry_TLT_ZoopCPUE_03.Secchi, qry_TLT_ZoopCPUE_03.Turbidity, qry_TLT_ZoopCPUE_03.TowTime,
qry_TLT_ZoopCPUE_03.Tide, qry_TLT_ZoopCPUE_03.BottomDepth, qry_TLT_ZoopCPUE_03.Duration,
qry_TLT_ZoopCPUE_03.MeterCheck
FROM qry_TLT_ZoopCPUE_03
WHERE (((qry_TLT_ZoopCPUE_03.Dilution)>0));
```

SQL

```
TRANSFORM Sum(qry_TLT_ZoopCPUE_04.CPUE) AS SumOfCPUE
SELECT qry_TLT_ZoopCPUE_04.SampleDate, qry_TLT_ZoopCPUE_04.qry_TLT_ZoopCPUE_01.Survey AS
Survey, qry_TLT_ZoopCPUE_04.qry_TLT_ZoopCPUE_01.Station AS Station, qry_TLT_ZoopCPUE_04.TowNum,
qry_TLT_ZoopCPUE_04.TowTime, qry_TLT_ZoopCPUE_04.Temp, qry_TLT_ZoopCPUE_04.TopEC,
qry_TLT_ZoopCPUE_04.BottomEC, qry_TLT_ZoopCPUE_04.Secchi, qry_TLT_ZoopCPUE_04.Turbidity,
qry_TLT_ZoopCPUE_04.Tide, qry_TLT_ZoopCPUE_04.BottomDepth, qry_TLT_ZoopCPUE_04.Duration,
qry_TLT_ZoopCPUE_04.MeterCheck, qry_TLT_ZoopCPUE_04.Volume, qry_TLT_ZoopCPUE_04.Dilution
FROM qry_TLT_ZoopCPUE_04
WHERE (((qry_TLT_ZoopCPUE_04.SampleDate)<#1/1/2018#))
GROUP BY qry_TLT_ZoopCPUE_04.SampleDate, qry_TLT_ZoopCPUE_04.qry_TLT_ZoopCPUE_01.Survey,
qry_TLT_ZoopCPUE_04.qry_TLT_ZoopCPUE_01.Station, qry_TLT_ZoopCPUE_04.TowNum,
qry_TLT_ZoopCPUE_04.TowTime, qry_TLT_ZoopCPUE_04.Temp, qry_TLT_ZoopCPUE_04.TopEC,
qry_TLT_ZoopCPUE_04.BottomEC, qry_TLT_ZoopCPUE_04.Secchi, qry_TLT_ZoopCPUE_04.Turbidity,
qry_TLT_ZoopCPUE_04.Tide, qry_TLT_ZoopCPUE_04.BottomDepth, qry_TLT_ZoopCPUE_04.Duration,
qry_TLT_ZoopCPUE_04.MeterCheck, qry_TLT_ZoopCPUE_04.Volume, qry_TLT_ZoopCPUE_04.Dilution
PIVOT qry_TLT_ZoopCPUE_04.[Common Name];
```