

GOOD

```
USE WideWorldImportersDW
```

```
Go
```

```
SELECT A.[Order Key]
      ,A.[Order Date Key]
      ,B.[ISO Week Number] AS WeekNumber
FROM [Fact].[Order] AS A
INNER JOIN [Dimension].[Date] AS B ON A.[Order Date Key] = b.DATE
WHERE A.[Order Date Key] < '20130401'
```

	Order Key	Order Date Key	WeekNumber
1	702	2013-01-05	1
2	894	2013-01-07	2
3	924	2013-01-07	2
4	1087	2013-01-07	2
5	1292	2013-01-09	2
6	1941	2013-01-11	2
7	1981	2013-01-12	2
8	2148	2013-01-14	3
9	2216	2013-01-14	3
10	2225	2013-01-14	3
11	2238	2013-01-14	3
12	2271	2013-01-14	3
13	2498	2013-01-15	3
14	2727	2013-01-17	3
15	2869	2013-01-17	3
16	3133	2013-01-18	3
17	2229	2013-01-19	2

```
use AdventureWorksDW2017
```

```
go
```

```
SELECT A.EmployeeKey
      ,A.FirstName
      ,A.LastName
      ,A.HireDate
      ,B.CalendarQuarter
      ,A.Gender
FROM DimEmployee AS A
INNER JOIN Dimdate AS B ON A.HireDate LIKE B.FullDateAlternateKey
WHERE B.DateKey < 20100101
      AND A.MaritalStatus = 'M'
ORDER BY Gender
```

	EmployeeKey	FirstName	LastName	HireDate	CalendarQuarter	Gender
37	214	Brenda	Diaz	2008-10-03	4	F
38	231	Mary	Baker	2009-07-25	3	F
39	234	Bonnie	Keamey	2009-08-01	3	F
40	239	Kim	Abercrombie	2009-08-16	3	F
41	255	Lori	Penor	2009-09-16	3	F
42	227	Linda	Meisner	2009-07-17	3	F
43	264	Jo	Berry	2009-10-05	4	F
44	265	Ben	Miller	2009-10-07	4	M
45	266	Tom	Vande Velde	2009-10-08	4	M
46	229	Magnus	Hedlund	2009-07-21	3	M
47	257	Sootha	Chamchemgkha	2009-09-23	3	M
48	259	Randy	Reeves	2009-09-23	3	M
49	263	Stuart	Macrae	2009-10-03	4	M
50	241	Prasanna	Samarawickrama	2009-08-22	3	M
51	242	Frank	Pellow	2009-08-23	3	M
52	243	Min	Su	2009-08-24	3	M

USE AdventureWorks2017

GO

```

SELECT A.ProductID
      ,D.name
      ,C.LocationID
      ,A.Quantity
      ,B.StandardCost
FROM production.ProductInventory AS A
INNER JOIN production.ProductCostHistory AS B ON A.ProductID = B.ProductID
INNER JOIN Production.Location AS C ON A.LocationID = c.LocationID
INNER JOIN Production.Product AS D ON A.ProductID = D.ProductID
WHERE Quantity < 100

```

Results		Messages			
	ProductID	name	LocationID	Quantity	StandardCost
1	748	HL Mountain Frame - Silver, 38	45	91	623.8403
2	748	HL Mountain Frame - Silver, 38	45	91	660.9142
3	748	HL Mountain Frame - Silver, 38	45	91	747.2002
4	749	Road-150 Red, 62	7	73	2171.2942
5	749	Road-150 Red, 62	60	60	2171.2942
6	751	Road-150 Red, 48	7	32	2171.2942
7	752	Road-150 Red, 52	7	52	2171.2942
8	752	Road-150 Red, 52	60	76	2171.2942
9	753	Road-150 Red, 56	60	51	2171.2942
10	754	Road-450 Red, 58	7	65	884.7083
11	754	Road-450 Red, 58	60	83	884.7083
12	755	Road-450 Red, 60	7	75	884.7083
13	755	Road-450 Red, 60	60	62	884.7083
14	756	Road-450 Red, 44	7	30	884.7083
15	756	Road-450 Red, 44	60	99	884.7083
16	757	Road-450 Red, 48	7	56	884.7083
17	757	Road-450 Red, 48	60	70	884.7083

WORST

```
USE AdventureWorksDW2017
GO
```

```
SELECT EmployeeKey
      ,FirstName
      ,LastName
      ,MAX(BirthDate) AS MaxBirthDate
FROM DimEmployee
GROUP BY EmployeeKey
      ,FirstName
      ,LastName
ORDER BY MaxBirthDate DESC;
USE WideWorldImporters
GO
```

```
SELECT A.CustomerID
      ,B.CustomerName
      ,A.OutstandingBalance
      ,B.PhoneNumber
      ,B.FaxNumber
FROM sales.CustomerTransactions AS A
INNER JOIN Sales.Customers AS B ON A.CustomerID = B.CustomerID
WHERE A.OutstandingBalance > 0
      AND B.BuyingGroupID IN (
      SELECT c.BuyingGroupID
      FROM sales.BuyingGroups AS c
      )
```

	EmployeeKey	FirstName	LastName	MaxBirthDate
1	123	Angela	Barbariol	1990-12-29
2	178	Steve	Masters	1990-11-04
3	102	Michael	Rothkugel	1990-08-04
4	118	Paul	Singh	1990-06-04
5	139	Kathie	Flood	1990-06-01
6	199	Jimmy	Bischoff	1990-06-01
7	176	Baris	Cetinok	1990-05-07
8	183	Chad	Niswonger	1990-03-04
9	163	Shane	Kim	1989-12-22
10	39	Simon	Rapier	1989-12-15
11	41	Michael	Hines	1989-12-15
12	56	Tengiz	Kharatishvili	1989-11-26
13	159	Alex	Nayberg	1989-11-11
14	206	Elizabeth	Keyser	1989-08-25
15	156	Tawana	Nusbaum	1989-06-10
16	100	Bjom	Rettig	1989-06-06

13	1	Tailspin Toys (Head Office)	264.04	(308) 555-0100	(308) 555-0101
14	1	Tailspin Toys (Head Office)	4045.70	(308) 555-0100	(308) 555-0101
15	1	Tailspin Toys (Head Office)	696.21	(308) 555-0100	(308) 555-0101
16	1	Tailspin Toys (Head Office)	358.80	(308) 555-0100	(308) 555-0101
17	1	Tailspin Toys (Head Office)	598.46	(308) 555-0100	(308) 555-0101
18	1	Tailspin Toys (Head Office)	2557.60	(308) 555-0100	(308) 555-0101
19	1	Tailspin Toys (Head Office)	4527.55	(308) 555-0100	(308) 555-0101
20	1	Tailspin Toys (Head Office)	11911.70	(308) 555-0100	(308) 555-0101
21	1	Tailspin Toys (Head Office)	44.85	(308) 555-0100	(308) 555-0101
22	401	Wingtip Toys (Head Office)	2526.90	(303) 555-0100	(303) 555-0101
23	401	Wingtip Toys (Head Office)	6804.78	(303) 555-0100	(303) 555-0101
24	401	Wingtip Toys (Head Office)	28280.80	(303) 555-0100	(303) 555-0101
25	401	Wingtip Toys (Head Office)	652.74	(303) 555-0100	(303) 555-0101
26	401	Wingtip Toys (Head Office)	2403.50	(303) 555-0100	(303) 555-0101
27	401	Wingtip Toys (Head Office)	2605.90	(303) 555-0100	(303) 555-0101
28	401	Wingtip Toys (Head Office)	3544.30	(303) 555-0100	(303) 555-0101

```
USE Northwinds2020TSQLV6
```

```
GO
```

```
SELECT A.OrderId
      ,A.ProductId
      ,B.productName
      ,C.SupplierCompanyName
      ,C.SupplierContactName
FROM sales.OrderDetail AS A
INNER JOIN Production.Product AS B ON A.ProductId = B.ProductId
INNER JOIN production.Supplier AS C ON B.SupplierId = C.SupplierId
WHERE A.Quantity > 20
```

	OrderId	ProductId	productName	SupplierCompanyName	SupplierContactName
1	10249	51	Product APITJ	Supplier JNNES	Clarkson, John
2	10250	51	Product APITJ	Supplier JNNES	Clarkson, John
3	10252	20	Product QHFFP	Supplier BWGYE	Iallo, Lucio
4	10252	33	Product ASTMN	Supplier NZLIF	Salas-Szejtter, Karolina
5	10252	60	Product WHBYK	Supplier OAVQT	Teper, Jeff
6	10253	39	Product LSOFL	Supplier LVJUA	Canel, Fabrice
7	10253	49	Product FPYPN	Supplier ELCRN	Lamb, Karin
8	10254	55	Product YYWRT	Supplier ERVYZ	Sprenger, CHumanResourcesistof
9	10254	74	Product BKAZJ	Supplier QOVFD	Balázs, Erzsébet
10	10255	16	Product PAFRH	Supplier GQRCV	Herp, Jesper
11	10255	36	Product GMKIJ	Supplier QZGUF	Kleineman, Christian
12	10255	59	Product UKXRI	Supplier OAVQT	Teper, Jeff
13	10257	27	Product SMIOH	Supplier ZPYVS	Jain, Mukesh
14	10258	2	Product RECZE	Supplier SWRXU	Adams, Terry
15	10258	5	Product EPEIM	Supplier VHQZD	Hance, Jim

FIXED

```
USE AdventureWorksDW2017
GO
```

```
SELECT E.EmployeeKey
      ,E.FirstName
      ,E.LastName
      ,MAX(E.BirthDate) AS 'Birthday'
FROM DimEmployee E
WHERE E.FirstName IN (
    SELECT FirstName
    FROM DimCustomer
)
GROUP BY EmployeeKey
      ,FirstName
      ,LastName
ORDER BY Birthday DESC;
```

	EmployeeKey	FirstName	LastName	Birthday
1	123	Angela	Barbariol	1990-12-29
2	178	Steve	Masters	1990-11-04
3	102	Michael	Rothkugel	1990-08-04
4	118	Paul	Singh	1990-06-04
5	199	Jimmy	Bischoff	1990-06-01
6	183	Chad	Niswonger	1990-03-04
7	163	Shane	Kim	1989-12-22
8	41	Michael	Hines	1989-12-15
9	39	Simon	Rapier	1989-12-15
10	159	Alex	Nayberg	1989-11-11
11	206	Elizabeth	Keyser	1989-08-25
12	140	Britta	Simon	1989-04-28
13	121	Diane	Tibbott	1989-03-09
14	196	Michael	Entin	1989-01-13
15	269	Janice	Galvin	1988-12-26
16	42	Yvonne	McKay	1988-11-13
17	177	Michael	Ray	1988-08-29

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SELECT A.CustomerID
      ,B.CustomerName
      ,B.PhoneNumber
      ,B.FaxNumber
FROM sales.CustomerTransactions AS A
INNER JOIN Sales.Customers AS B ON A.CustomerID = B.CustomerID
WHERE A.OutstandingBalance > 0
      AND B.BuyingGroupID IN (
    SELECT c.BuyingGroupID
    FROM sales.BuyingGroups AS c
)
group by A.CustomerID
      ,B.CustomerName
      ,B.PhoneNumber
      ,B.FaxNumber
```

	CustomerID	CustomerName	PhoneNumber	FaxNumber
1	1	Tailspin Toys (Head Office)	(308) 555-0100	(308) 555-0101
2	401	Wingtip Toys (Head Office)	(303) 555-0100	(303) 555-0101

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```
SELECT
    A.ProductId
    ,B.productName
    ,C.SupplierCompanyName
    ,C.SupplierContactName
FROM sales.OrderDetail AS A
INNER JOIN Production.Product AS B ON A.ProductId = B.ProductId
INNER JOIN production.Supplier AS C ON B.SupplierId = C.SupplierId
WHERE A.Quantity > 20
group by A.ProductId
    ,B.productName
    ,C.SupplierCompanyName
    ,C.SupplierContactName
```

	ProductId	productName	SupplierCompanyName	SupplierContactName
1	1	Product HHYDP	Supplier SWRXU	Adams, Terry
2	2	Product RECZE	Supplier SWRXU	Adams, Terry
3	3	Product IMEHJ	Supplier SWRXU	Adams, Terry
4	4	Product KSBRM	Supplier VHQZD	Hance, Jim
5	5	Product EPEIM	Supplier VHQZD	Hance, Jim
6	6	Product VAIIV	Supplier STUAZ	Parovszky, Alfons
7	7	Product HMLNI	Supplier STUAZ	Parovszky, Alfons
8	8	Product WVJFP	Supplier STUAZ	Parovszky, Alfons
9	9	Product AOZBW	Supplier QOVFD	Balázs, Erzsébet
10	10	Product YHXGE	Supplier QOVFD	Balázs, Erzsébet
11	11	Product QMVUN	Supplier EQPNC	Hofmann, Roland
12	12	Product OSFNS	Supplier EQPNC	Hofmann, Roland
13	13	Product POXFU	Supplier QWUSF	Popkova, Darya
14	14	Product PWCJB	Supplier QWUSF	Popkova, Darya
15	15	Product KSZOI	Supplier QWUSF	Popkova, Darya
16	16	Product PAFRH	Supplier GQRCV	Herp, Jesper
17	17	Product BLCAX	Supplier GQRCV	Herp, Jesper
18	18	Product CKEDC	Supplier GQRCV	Herp, Jesper