

INSTITUTO POLITÉCNICO NACIONAL

UNIDAD PROFESIONAL INTERDISCIPLINARIA EN
INGENIERÍA Y TECNOLOGÍAS AVANZADAS

BASE DE DATOS DISTRIBUIDAS

DESCRIPCIÓN DE PLANES DE EJECUCIÓN

DE LAS CONSULTAS IMPLEMENTADAS

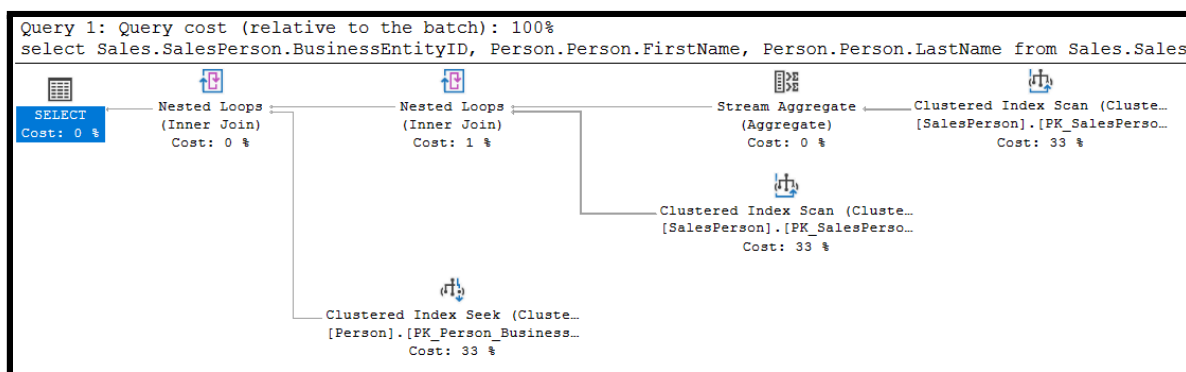
CALDERON LANDEROS SERGIO DAVID
CRUZ TELLEZ LUISA MICHELLE
GARCÍA ROMERO RICARDO
JUAREZ SANCHEZ MARCOS

En este documento se va a describir los planes de ejecución de las consultas implementadas. Se mostrará el diagrama de ejecución de los planes

Consulta 3:

Conocer qué encargado regional cuenta con más bonos

```
select Sales.SalesPerson.BusinessEntityID, Person.Person.FirstName,  
Person.Person.LastName  
from Sales.SalesPerson join Person.Person  
on Sales.SalesPerson.BusinessEntityID = Person.Person.BusinessEntityID  
where Bonus= (select max(Bonus) from Sales.SalesPerson);
```



Análisis:

Se puede apreciar que existen “Clustered Index” en las dos tablas que se van a unir para hacer la consulta, en este caso son Sales.SalesPerson unión con Person.Person. SQL Server utiliza el Nested Join debido a que es necesaria la unión par a par, ya que regresa un resultado de la unión por cada consulta de la primera tabla “Sales.SalesPerson”.

El Nested Loop que se aplica en esta consulta está optimizado, debido a que una de las tablas es más pequeña que la otra (*En Sales.SalesPerson existen solo 17 registros, los cuales se unen en combinación con Person.Person, la cual tiene más de 19,000 registros*), y esto ocasiona un “bajo” costo de recursos por cada loop.

	BusinessEntityID	TerritoryID	SalesQuota	Bonus	CommissionPct	SalesYTD	SalesLastYear	rowguid	ModifiedDate
1	274	NULL	NULL	0.00	0.00	559697.5639	0.00	48754992-9EE0-4C0E-8C94-9451604E3E02	2010-12-28 00:00:00.000
2	275	2	300000.00	4100.00	0.012	3763178.1787	1750406.4785	1E0A7274-3064-4F58-88EE-4C6586C87169	2011-05-24 00:00:00.000
3	276	4	250000.00	2000.00	0.015	4251368.5497	1439156.0291	40D9EEE4-8E81-4F8C-AF97-683394C1F7C0	2011-05-24 00:00:00.000
4	277	3	250000.00	2500.00	0.015	3189418.3662	1997186.2037	39012928-BFEC-4242-874D-423162C3F567	2011-05-24 00:00:00.000
5	278	6	250000.00	500.00	0.01	1453719.4653	1620276.8966	7A0AE1AB-B283-40F9-91D1-167ABF06D720	2011-05-24 00:00:00.000
6	279	5	300000.00	6700.00	0.01	2315185.611	1849640.9418	52A5179D-3239-4157-AE29-17E868296DC0	2011-05-24 00:00:00.000
7	280	1	250000.00	5000.00	0.01	1352577.1325	1927059.178	BE941A4A-FB50-4947-BDA4-BB8972365B08	2011-05-24 00:00:00.000
8	281	4	250000.00	3550.00	0.01	2458535.6169	2073505.9999	35326DDB-7278-4FEF-B3BA-EA137B69094E	2011-05-24 00:00:00.000
9	282	6	250000.00	5000.00	0.015	2604540.7172	2038234.6549	31FD7FC1-DC84-4F05-B9A0-762519EACACC	2011-05-24 00:00:00.000
10	283	1	250000.00	3500.00	0.012	1573012.9383	1371635.3158	6BAC15B2-8FFB-45A9-B6D5-040E16C2073F	2011-05-24 00:00:00.000
11	284	1	300000.00	3900.00	0.019	1576562.1966	0.00	AC94EC04-A2DC-43E3-8654-DD0C546ABC17	2012-09-23 00:00:00.000
12	285	NULL	NULL	0.00	0.00	172524.4512	0.00	CFDBEF27-B1F7-4A56-A878-0221C73BAE67	2013-03-07 00:00:00.000
13	286	9	250000.00	5650.00	0.018	1421810.9242	2278548.9776	9B96BF77-75DC-45BD-A8DF-9CDA72839E1	2013-05-23 00:00:00.000
14	287	NULL	NULL	0.00	0.00	519905.932	0.00	1DD1F689-DF74-4149-8600-59555EEF154B	2012-04-09 00:00:00.000
15	288	8	250000.00	75.00	0.018	1827066.7118	1307949.7917	224B825A-62E3-493E-ACAF-4F8F5C72396A	2013-05-23 00:00:00.000
16	289	10	250000.00	5150.00	0.02	4116871.2277	1635823.3967	25F6838D-9DB4-4833-9DDC-7A24283AF1BA	2012-05-23 00:00:00.000
17	290	7	250000.00	985.00	0.016	3121616.3202	2396539.7601	F509E3D4-76C8-42AA-B353-90B78D808DE	2012-05-23 00:00:00.000

Índices ordenados en la Tabla Sales.SalesPerson

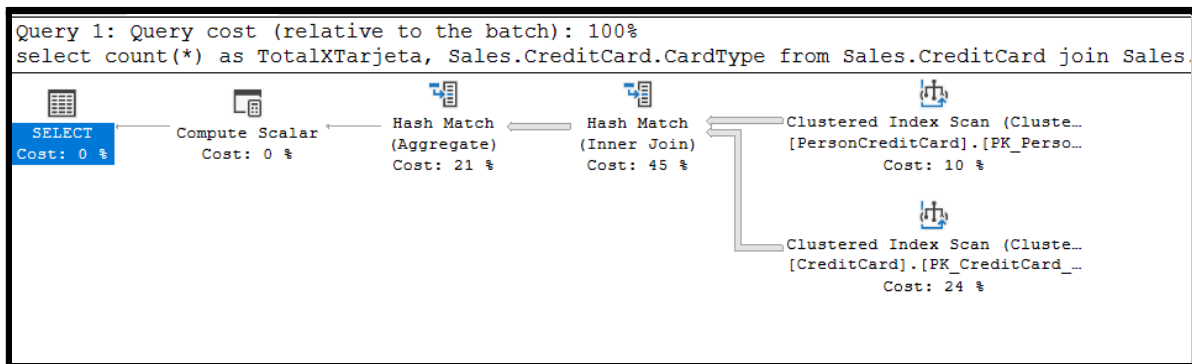
	BusinessEntityID	PersonType	NameStyle	Title	FirstName	MiddleName	LastName	Suffix	EmailPromotion	AdditionalContactInfo	Demographics
1	1	EM	0	NULL	Ken	J	Sánchez	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.m
2	2	EM	0	NULL	Terri	Lee	Duffy	NULL	1	NULL	<IndividualSurvey xmlns="http://schemas.m
3	3	EM	0	NULL	Roberto	NULL	Tamburello	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.m
4	4	EM	0	NULL	Rob	NULL	Walters	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.m
5	5	EM	0	Ms.	Gail	A	Erickson	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.m
6	6	EM	0	Mr.	Joséph	H	Goldberg	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.m
7	7	EM	0	NULL	Dylan	A	Miller	NULL	2	NULL	<IndividualSurvey xmlns="http://schemas.m
8	8	EM	0	NULL	Diane	L	Margheim	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.m
9	9	EM	0	NULL	Gigi	N	Matthew	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.m
10	10	EM	0	NULL	Michael	NULL	Raheem	NULL	2	NULL	<IndividualSurvey xmlns="http://schemas.m
11	11	EM	0	NULL	Ovidiu	V	Cracium	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.m
12	12	EM	0	NULL	Thierry	B	D'Hers	NULL	2	NULL	<IndividualSurvey xmlns="http://schemas.m
13	13	EM	0	Ms.	Janice	M	Galvin	NULL	2	NULL	<IndividualSurvey xmlns="http://schemas.m
14	14	EM	0	NULL	Michael	I	Sullivan	NULL	2	NULL	<IndividualSurvey xmlns="http://schemas.m
15	15	EM	0	NULL	Sharon	B	Salavania	NULL	2	NULL	<IndividualSurvey xmlns="http://schemas.m
16	16	EM	0	NULL	David	M	Bradley	NULL	1	NULL	<IndividualSurvey xmlns="http://schemas.m
17	17	EM	0	NULL	Kevin	F	Brown	NULL	2	NULL	<IndividualSurvey xmlns="http://schemas.m

Índices ordenados en la Tabla Person.Person

Consulta 4:

Listar el número total de personas que manejan cada tarjeta

```
select count(*) as TotalXTarjeta, Sales.CreditCard.CardType
from Sales.CreditCard join Sales.PersonCreditCard
on Sales.PersonCreditCard.CreditCardID = Sales.CreditCard.CreditCardID
group by CardType;
```



Análisis:

Como bien sabemos el Hash Join es el método mas efectivo para poder unir cantidades enormes de datos no ordenados, lo cual pasa en este caso, ya que la unión de las tablas es mediante el dato "CreditCardId", el cual se encuentra ordenado en la tabla "Sales.CreditCard", pero este mismo no esta ordenado en la tabla "Sales.CreditCard".

Para que estuviera optimizada la consulta, lo mejor seria que las dos tablas estuvieran ordenadas respecto a "CreditCardId", pero es no es posible, ya que no podemos asegurar una relación 1:1 en la tabla "PersonCreditCard", ya que no todas las tarjetas han sido asignadas a esta persona, o incluso una persona puede tener varias tarjetas.

	BusinessEntityID	CreditCardID	ModifiedDate
1	293	17038	2013-07-31 00:00:00.000
2	295	15369	2011-08-01 00:00:00.000
3	297	8010	2011-08-01 00:00:00.000
4	299	5316	2013-07-31 00:00:00.000
5	301	6653	2011-05-31 00:00:00.000
6	303	9010	2012-07-31 00:00:00.000
7	305	8937	2011-05-31 00:00:00.000
8	307	16124	2012-10-30 00:00:00.000
9	309	9478	2011-07-01 00:00:00.000
10	311	17600	2011-08-01 00:00:00.000
11	313	1970	2013-06-30 00:00:00.000
12	315	8274	2013-07-31 00:00:00.000
13	317	13045	2011-05-31 00:00:00.000
14	319	13601	2011-08-01 00:00:00.000
15	323	5958	2012-07-31 00:00:00.000
16	325	10709	2012-05-30 00:00:00.000
17	327	126	2013-07-31 00:00:00.000
18	329	6626	2013-05-30 00:00:00.000
19	331	14963	2012-06-30 00:00:00.000

Parte de Sales.PersonCreditCard




	CreditCardID	CardType	CardNumber	ExpMonth	ExpYear	ModifiedDate
1	1	SuperiorCard	33332664695310	11	2006	2013-07-29 00:00:00.000
2	2	Distinguish	55552127249722	8	2005	2013-12-05 00:00:00.000
3	3	ColonialVoice	77778344838353	7	2005	2014-01-14 00:00:00.000
4	4	ColonialVoice	77774915718248	7	2006	2013-05-20 00:00:00.000
5	5	Vista	11114404600042	4	2005	2013-02-01 00:00:00.000
6	6	Distinguish	55557132036181	9	2006	2014-04-10 00:00:00.000
7	7	Distinguish	55553635401028	6	2007	2013-02-01 00:00:00.000
8	8	SuperiorCard	33336081193101	7	2007	2013-06-30 00:00:00.000
9	9	Distinguish	55553465625901	2	2005	2013-09-23 00:00:00.000
10	10	SuperiorCard	33332126386493	8	2008	2011-08-31 00:00:00.000
11	11	SuperiorCard	33335352517363	10	2008	2014-05-04 00:00:00.000
12	12	SuperiorCard	33334316194519	4	2008	2012-05-30 00:00:00.000
13	13	Vista	11119775847802	11	2005	2014-03-01 00:00:00.000
14	14	Distinguish	55553287727410	10	2006	2013-11-19 00:00:00.000
15	15	SuperiorCard	33336866065599	11	2008	2013-01-29 00:00:00.000
16	16	Vista	11111985451507	8	2006	2013-12-30 00:00:00.000
17	17	ColonialVoice	77771220960729	8	2008	2014-01-16 00:00:00.000
18	18	ColonialVoice	77773971683137	8	2007	2011-12-29 00:00:00.000
19	19	ColonialVoice	77779803886862	9	2007	2014-02-04 00:00:00.000

Índices ordenados de Sales.CreditCard

Consulta 6:

Modificar/Actualizar el nombre de la tienda “Tire Company” por “Wire Company”

```
Update AdventureWorks2019.Sales.Store
set Name = 'Tired Company' from AdventureWorks2019.Sales.Store
where Name = 'Tire Company'
```

Query 1: Query cost (relative to the batch): 100%			
Update AdventureWorks2019.Sales.Store set Name = 'Tired Company' from AdventureWorks2019.Sales.Store where Name = 'Tire C...			
T-SQL			
UPDATE	Clustered Index Update	Compute Scalar	Clustered Index Scan (Clustered)
Cost: 0 %	[Store].[PK_Store_BusinessEntityID] Cost: 11 %	Cost: 0 %	[Store].[PK_Store_BusinessEntityID] Cost: 88 %

Consulta 7:

Listar los usuarios que reciben promoción por email (“EmailPromotion” de la tabla Person.Person) que tengan tarjeta de crédito “ColonialVoice” (Inclucra tabla Sales.CreditCard y Sales.PersonCreditCard)

```

select * from Person.Person;
select CardType from Sales.CreditCard group by CardType;
select * from Sales.CreditCard;
select * from Sales.PersonCreditCard;

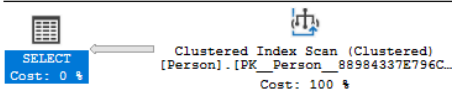
select count(*) from Sales.PersonCreditCard;

select Person.Person.FirstName, Person.Person.LastName,
Person.Person.EmailPromotion, Person.Person.BusinessEntityID,
Sales.CreditCard.CardType
from Person.Person
join Sales.PersonCreditCard on Person.Person.BusinessEntityID =
Sales.PersonCreditCard.BusinessEntityID
join Sales.CreditCard on Sales.PersonCreditCard.CreditCardID =
Sales.CreditCard.CreditCardID
where Sales.CreditCard.CardType = 'ColonialVoice' and
Person.Person.EmailPromotion = 1;

```

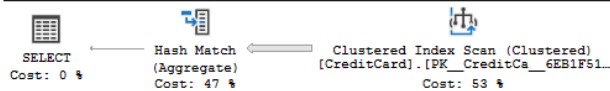
Query 1: Query cost (relative to the batch): 12%

```
select * from Person
```



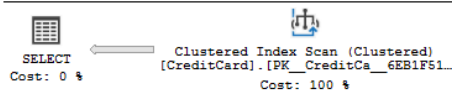
Query 2: Query cost (relative to the batch): 22%

```
; select CardType from CreditCard group by CardType
```



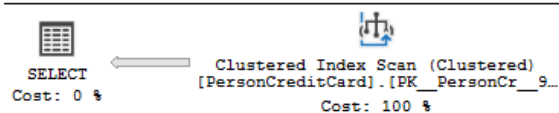
Query 3: Query cost (relative to the batch): 12%

```
; select * from CreditCard
```



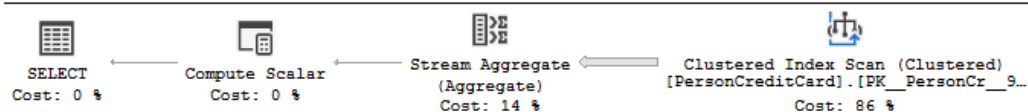
Query 4: Query cost (relative to the batch): 5%

```
; select * from PersonCreditCard
```



Query 5: Query cost (relative to the batch): 6%

```
; select count(*) from PersonCreditCard
```

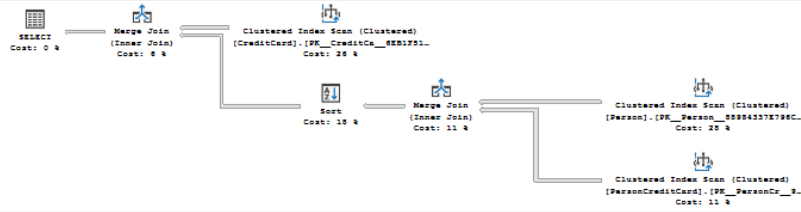


Query 6: Query cost (relative to the batch): 44%

```

; select Person.FirstName, Person.LastName, Person.EmailPromotion, Person.BusinessEntityID, CreditCard.CardType from P...
Missing Index (Impact 15.2687): CREATE NONCLUSTERED INDEX [<Name of Missing Index, sysname,>] ON [dbo].[Person] ([Emai...

```



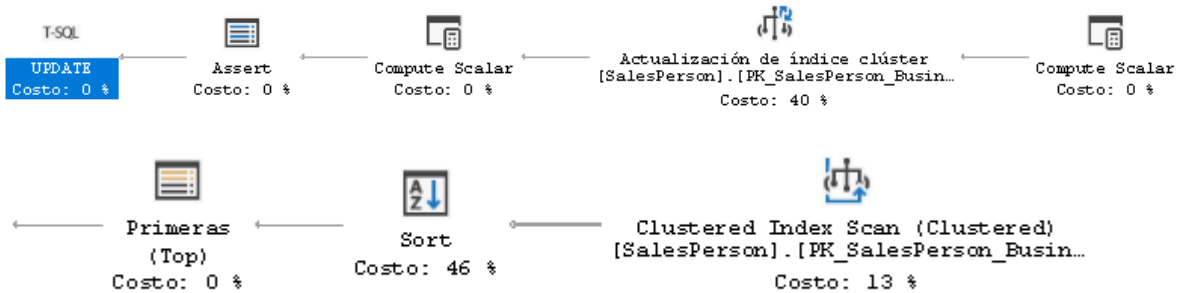
Consulta 8:

Modificar/Actualizar el bono del encargado regional que tenga el mayor número de ventas de este año.

```

update Sales.SalesPerson
    set Bonus = 8000.00
    where SalesYTD =(select max(SalesYTD) MayorVentas from
Sales.SalesPerson);

```



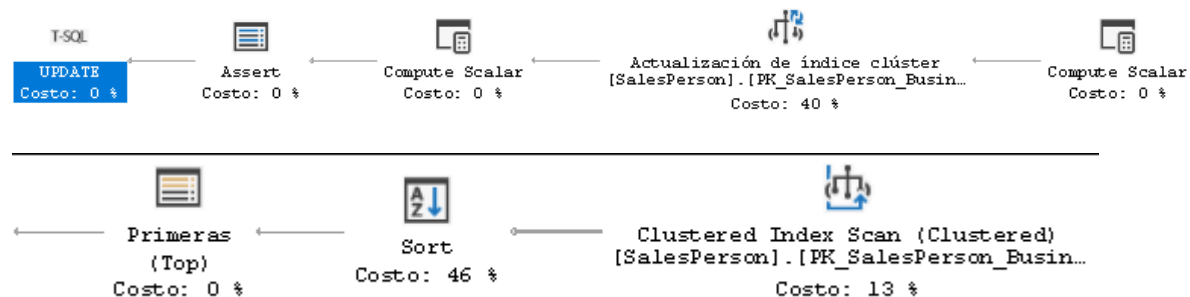
Consulta 9:

Modificar/Actualizar el bono de un encargado regional que no haya vendido nada el año pasado.

```

update Sales.SalesPerson
    set Bonus = 1000.00
    where SalesYTD =(select min(SalesYTD) MayorVentas from
Sales.SalesPerson);

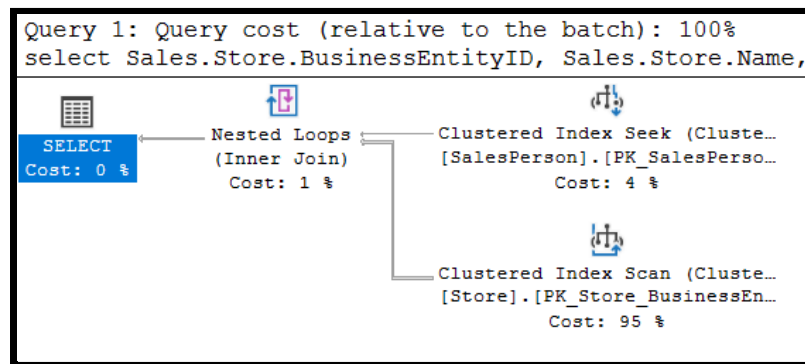
```



Consulta 10:

Listar las tiendas al cargo del encargado regional (SalesPerson) con ID 275

```
select Sales.Store.BusinessEntityID, Sales.Store.Name,  
Sales.SalesPerson.BusinessEntityID  
from Sales.Store join Sales.SalesPerson  
on Sales.SalesPerson.BusinessEntityID = Sales.Store.SalesPersonID  
where Sales.SalesPerson.BusinessEntityID = 275;
```



Análisis:

Dadas las dos tablas de las cuales se va a usar la unión, no es necesario optimizar la consulta, ya que estas tablas en cuestión ya se encuentran ordenadas, y se puede hacer una conexión 1:1 entre ellas.

	BusinessEntityID	Name	SalesPersonID	Demographics	rowguid	ModifiedDate
1	292	Next-Door Bike Store	279	<StoreSurvey xmlns="http://schemas.microsoft.com...">	A22517E3-848D-4EBE-B9D9-7437F3432304	2014-09-12 11:15:07.497
2	294	Professional Sales and Service	276	<StoreSurvey xmlns="http://schemas.microsoft.com...">	B50CA50B-C601-4A13-B07E-2C63862D71B4	2014-09-12 11:15:07.497
3	296	Riders Company	277	<StoreSurvey xmlns="http://schemas.microsoft.com...">	337C3688-1339-4E1A-A08A-B54B23566E49	2014-09-12 11:15:07.497
4	298	The Bike Mechanics	275	<StoreSurvey xmlns="http://schemas.microsoft.com...">	7894F278-F0C8-4D16-BD75-213FDBF13023	2014-09-12 11:15:07.497
5	300	Nationwide Supply	286	<StoreSurvey xmlns="http://schemas.microsoft.com...">	C3FC9705-A8C4-4F3A-9550-EB2FA4B7B64D	2014-09-12 11:15:07.497
6	302	Area Bike Accessories	281	<StoreSurvey xmlns="http://schemas.microsoft.com...">	368BE6DD-30E5-49BB-9A86-71FD49C58F4E	2014-09-12 11:15:07.497
7	304	Bicycle Accessories and Kits	283	<StoreSurvey xmlns="http://schemas.microsoft.com...">	35F40636-5105-49D5-869E-27E231189150	2014-09-12 11:15:07.497
8	306	Clamps & Brackets Co.	275	<StoreSurvey xmlns="http://schemas.microsoft.com...">	64D06BFC-D060-405C-8C60-C067FE7C67DF	2014-09-12 11:15:07.497
9	308	Valley Bicycle Specialists	277	<StoreSurvey xmlns="http://schemas.microsoft.com...">	59386B0C-652E-4668-B44B-4E1711793330	2014-09-12 11:15:07.497
10	310	New Bikes Company	279	<StoreSurvey xmlns="http://schemas.microsoft.com...">	47E4B6BD-5CD1-45A3-A231-79D930381C56	2014-09-12 11:15:07.497
11	312	Vinyl and Plastic Goods Corporation	282	<StoreSurvey xmlns="http://schemas.microsoft.com...">	DC610525-E373-49B1-B786-EA040EC25C06	2014-09-12 11:15:07.497
12	314	Top of the Line Bikes	288	<StoreSurvey xmlns="http://schemas.microsoft.com...">	E290E93F-A980-4BA3-86C3-9858F15C8A6D	2014-09-12 11:15:07.497
13	316	Fun Toys and Bikes	281	<StoreSurvey xmlns="http://schemas.microsoft.com...">	6CDCF941-4192-49C7-994A-5ADB5A34E095	2014-09-12 11:15:07.497
14	318	Great Bikes	283	<StoreSurvey xmlns="http://schemas.microsoft.com...">	956FBC35-5E0D-4175-8045-E0BE380BA340	2014-09-12 11:15:07.497
15	320	Metropolitan Sales and Rental	275	<StoreSurvey xmlns="http://schemas.microsoft.com...">	0CB4FEF2-5047-40F7-8848-B59F7A3F3EEC	2014-09-12 11:15:07.497
16	322	Irregulars Outlet	288	<StoreSurvey xmlns="http://schemas.microsoft.com...">	CDE66279-83D8-4340-A83C-E86E15514AC4	2014-09-12 11:15:07.497

Índices ordenados de BusinessEntityID en Sales.Store

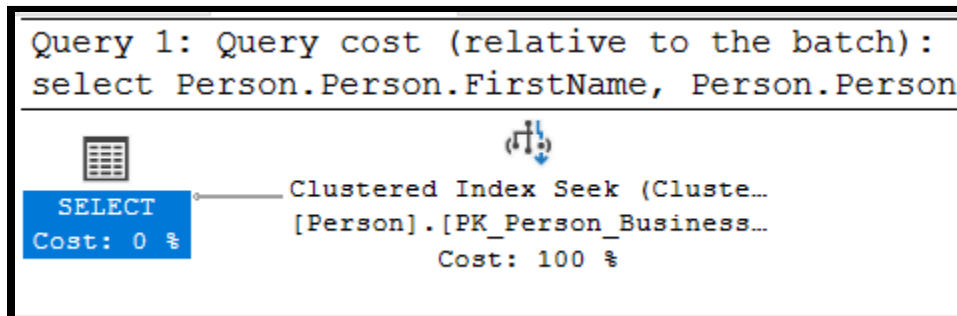
	BusinessEntityID	TerritoryID	SalesQuota	Bonus	CommissionPct	SalesYTD	SalesLastYear	rowguid	ModifiedDate
1	274	NULL	NULL	0.00	0.00	559697.5639	0.00	48754992-9EE0-4C0E-8C94-9451604E3E02	2010-12-28 00:00:00.000
2	275	2	300000.00	4100.00	0.012	3763178.1787	1750406.4785	1E0A7274-3064-4F58-88EE-4C6586C87169	2011-05-24 00:00:00.000
3	276	4	250000.00	2000.00	0.015	4251368.5497	1439156.0291	4DD9EEE4-8E81-4F8C-AF97-683394C1F7C0	2011-05-24 00:00:00.000
4	277	3	250000.00	2500.00	0.015	3189418.3662	1997186.2037	39012928-BFEC-4242-874D-423162C3F567	2011-05-24 00:00:00.000
5	278	6	250000.00	500.00	0.01	1453719.4653	1620276.8966	7A0AE1AB-B283-40F9-91D1-167ABF06D720	2011-05-24 00:00:00.000
6	279	5	300000.00	6700.00	0.01	2315185.611	1849640.9418	52A5179D-3239-4157-AE29-17E868296DC0	2011-05-24 00:00:00.000
7	280	1	250000.00	5000.00	0.01	1352577.1325	1927059.178	BE941A4A-FB50-4947-BD44-BB8972365B08	2011-05-24 00:00:00.000
8	281	4	250000.00	3550.00	0.01	2458535.6169	2073505.9999	35326DDB-7278-4FEF-B3BA-EA137B69094E	2011-05-24 00:00:00.000
9	282	6	250000.00	5000.00	0.015	2604540.7172	2038234.6549	31FD7FC1-DC84-4F05-B9A0-762519EACACC	2011-05-24 00:00:00.000
10	283	1	250000.00	3500.00	0.012	1573012.9383	1371635.3158	6BAC15B2-8FFB-45A9-B6D5-040E16C2073F	2011-05-24 00:00:00.000
11	284	1	300000.00	3900.00	0.019	1576562.1966	0.00	AC94EC04-A2DC-43E3-8654-DD0C546ABC17	2012-09-23 00:00:00.000
12	285	NULL	NULL	0.00	0.00	172524.4512	0.00	CFDBEF27-B1F7-4A56-A878-0221C73BAE67	2013-03-07 00:00:00.000
13	286	9	250000.00	5650.00	0.018	1421810.9242	2278548.9776	9B968777-75DC-45BD-A8DF-9CDA72839E1	2013-05-23 00:00:00.000
14	287	NULL	NULL	0.00	0.00	519905.932	0.00	1DD1F689-DF74-4149-8600-59555EEF154B	2012-04-09 00:00:00.000
15	288	8	250000.00	75.00	0.018	1827066.7118	1307949.7917	224BB25A-62E3-493E-ACAF-4F8F5C72396A	2013-05-23 00:00:00.000
16	289	10	250000.00	5150.00	0.02	4116871.2277	1635823.3967	25F6838D-9DB4-4833-9DDC-7A24283AF1BA	2012-05-23 00:00:00.000
17	290	7	250000.00	985.00	0.016	3121616.3202	2396539.7601	F509E3D4-76C8-42AA-B353-90B7B8DB08DE	2012-05-23 00:00:00.000

Índices ordenados de BusinessEntityID en Sales.SalesPerson

Consulta 11:

Listar el nombre de los encargados regionales

```
select Person.Person.FirstName, Person.Person.MiddleName,
Person.Person.LastName
from Person.Person
where BusinessEntityID between 274 and 290;
```



Análisis:

Como la consulta solo busca un rango de datos, los cuales se encuentran dentro de una lista ordenada, no hay mucho que se pueda hacer, debido a que ya está lo más optimizada posible.

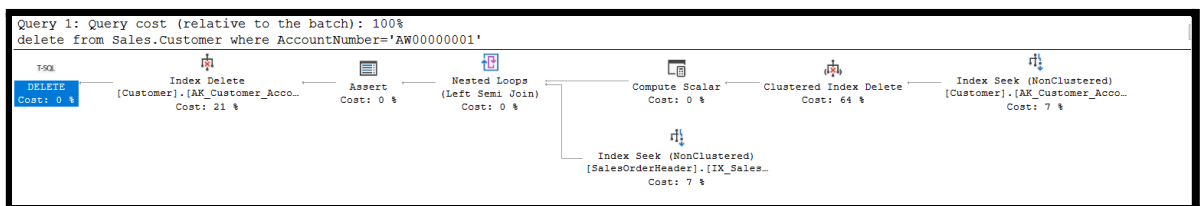
	BusinessEntityID	Person Type	NameStyle	Title	FirstName	MiddleName	LastName	Suffix	EmailPromotion	AdditionalContactInfo	Demographics
1	1	EM	0	NULL	Ken	J	Sánchez	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.m...
2	2	EM	0	NULL	Terri	Lee	Duffy	NULL	1	NULL	<IndividualSurvey xmlns="http://schemas.m...
3	3	EM	0	NULL	Roberto	NULL	Tamburello	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.m...
4	4	EM	0	NULL	Rob	NULL	Walters	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.m...
5	5	EM	0	Ms.	Gail	A	Erickson	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.m...
6	6	EM	0	Mr.	Josief	H	Goldberg	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.m...
7	7	EM	0	NULL	Dylan	A	Miller	NULL	2	NULL	<IndividualSurvey xmlns="http://schemas.m...
8	8	EM	0	NULL	Diane	L	Margheim	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.m...
9	9	EM	0	NULL	Gigi	N	Matthew	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.m...
10	10	EM	0	NULL	Michael	NULL	Raheem	NULL	2	NULL	<IndividualSurvey xmlns="http://schemas.m...
11	11	EM	0	NULL	Ovidiu	V	Cracium	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.m...
12	12	EM	0	NULL	Thierry	B	D'Hers	NULL	2	NULL	<IndividualSurvey xmlns="http://schemas.m...
13	13	EM	0	Ms.	Janice	M	Galvin	NULL	2	NULL	<IndividualSurvey xmlns="http://schemas.m...
14	14	EM	0	NULL	Michael	I	Sullivan	NULL	2	NULL	<IndividualSurvey xmlns="http://schemas.m...
15	15	EM	0	NULL	Sharon	B	Salavaria	NULL	2	NULL	<IndividualSurvey xmlns="http://schemas.m...
16	16	EM	0	NULL	David	M	Bradley	NULL	1	NULL	<IndividualSurvey xmlns="http://schemas.m...
17	17	EM	0	NULL	Kevin	F	Brown	NULL	2	NULL	<IndividualSurvey xmlns="http://schemas.m...
18	18	EM	0	NULL	John	L	Wood	NULL	2	NULL	<IndividualSurvey xmlns="http://schemas.m...

ID ordenados en la tabla Person.Person

Consulta 12:

Eliminar cliente con número de cuenta AW00000001

`delete from Sales.Customer where AccountNumber='AW00000001'`



Análisis:

Como la consulta anterior, excepto que no se busca dentro de un rango, si no solo se busca un dato en específico, el cual es eliminado, de la tabla Sales.Customer, la cual ya se encuentra ordenada por CustomerID.

	CustomerID	PersonID	StoreID	TerritoryID	AccountNumber	rowguid	ModifiedDate
1	2	NULL	1028	1	AW00000002	E552F657-A9AF-4A7D-A645-C429D6E02491	2014-09-12 11:15:07.263
2	3	NULL	642	4	AW00000003	130774B1-DB21-4EF3-98C8-C104BCD6ED6D	2014-09-12 11:15:07.263
3	4	NULL	932	4	AW00000004	FF862851-1DAA-4044-BE7C-3E85583C054D	2014-09-12 11:15:07.263
4	5	NULL	1026	4	AW00000005	83905BDC-6F5E-4F71-B162-C98DA069F38A	2014-09-12 11:15:07.263
5	6	NULL	644	4	AW00000006	1A92DF88-BFA2-467D-BD54-FCB9E647FDD7	2014-09-12 11:15:07.263
6	7	NULL	930	1	AW00000007	03E9273E-B193-448E-9823-FE0C44AEED78	2014-09-12 11:15:07.263
7	8	NULL	1024	5	AW00000008	801368B1-4323-4BFA-8BEA-5B5B1E4BD4A0	2014-09-12 11:15:07.263
8	9	NULL	620	5	AW00000009	B900BB7F-23C3-481D-80DA-C49A5BD6F772	2014-09-12 11:15:07.263
9	10	NULL	928	6	AW00000010	CDB6698D-2FF1-4FBA-8F22-60AD1D11DABD	2014-09-12 11:15:07.263
10	11	NULL	1022	6	AW00000011	750F3495-59C4-48A0-80E1-E37EC60E77D9	2014-09-12 11:15:07.263
11	12	NULL	622	6	AW00000012	947BCAF1-1F32-44F3-B9C3-0011F95FBE54	2014-09-12 11:15:07.263
12	13	NULL	434	7	AW00000013	B0FA5854-2511-439B-A7AC-50C9C460B175	2014-09-12 11:15:07.263
13	14	NULL	1020	8	AW00000014	2F96BEDC-723D-468F-834B-B2B8AE79C849	2014-09-12 11:15:07.263
14	15	NULL	624	9	AW00000015	0340737B-D4FA-4795-93AA-CAEB8371BCF9	2014-09-12 11:15:07.263
15	16	NULL	432	10	AW00000016	C9381589-D31C-4EFE-8978-8D3449EB1F0F	2014-09-12 11:15:07.263
16	17	NULL	1018	5	AW00000017	34DB417F-1E0B-4408-9FF6-987E59D0D73C	2014-09-12 11:15:07.263
17	18	NULL	1332	3	AW00000018	C04D6B4D-94C6-4C5C-A44C-B449C0AC1B45	2014-09-12 11:15:07.263
18	19	NULL	430	1	AW00000019	69AE5D43-31BE-4B76-BFBB-5A23C4788BBC	2014-09-12 11:15:07.263
19	20	NULL	1016	1	AW00000020	E010C10A-F1C3-4BBA-81CA-A7E083350400	2014-09-12 11:15:07.263

Tabla después de eliminar al Cliente