QUIZ

DB DAY03

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Preview

Download AdventureWork dari google drive :

https://drive.google.com/drive/folders/1zdOV8lhFLeT3mpC1-EoLm_idlVYKLZqs?usp=share_link

Review gambar ERD AdventureWork dari link berikut :

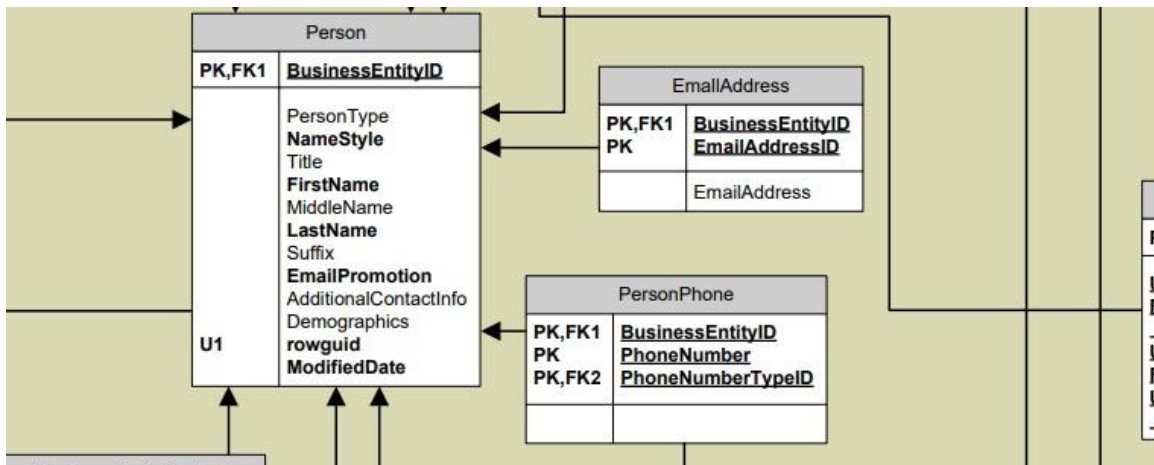https://drive.google.com/drive/folders/1zdOV8lhFLeT3mpC1-EoLm_idlVYKLZqs?usp=share_link
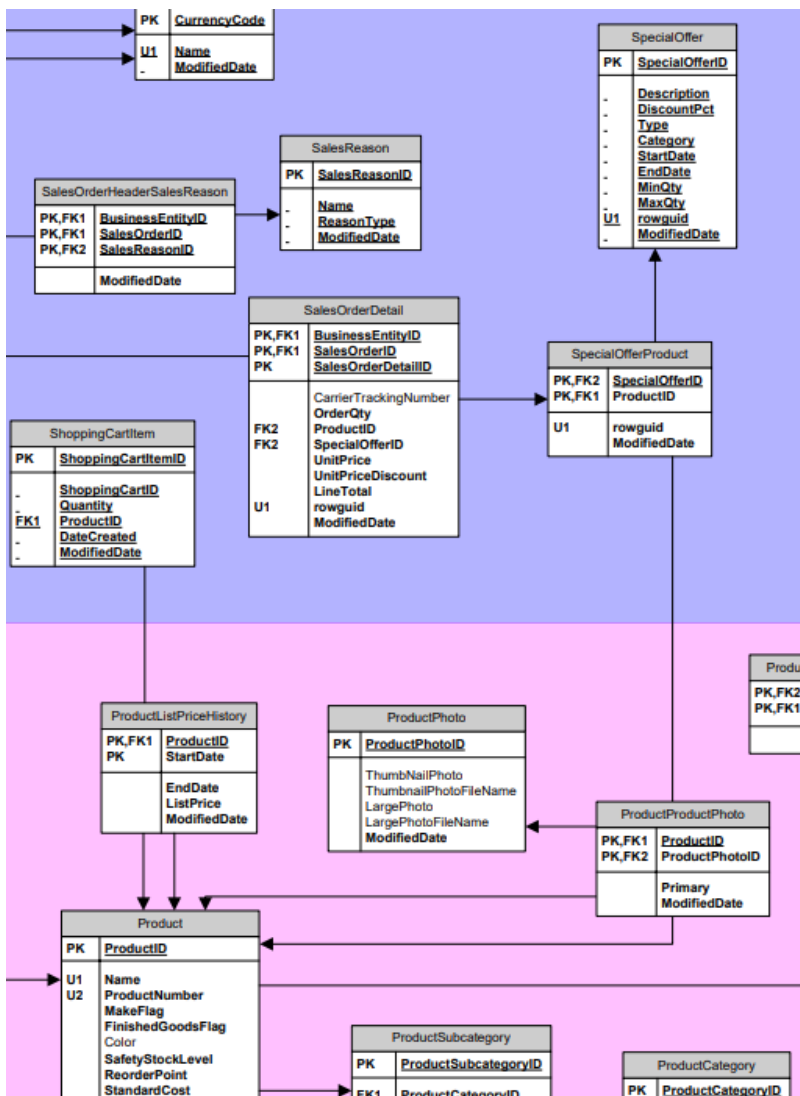
Person.Person - AdventureWorks (dataedo.com)

One To Many

[Person => EmailAddress]

[Person => PersonPhone]

Many To Many

CurrencyCode
PK	CurrencyCode
U1	Name
-	ModifiedDate

SpecialOffer
PK	SpecialOfferID
-	Description
-	DiscountPct
-	Type
-	Category
-	StartDate
-	EndDate
-	MinQty
-	MaxQty
U1	rowguid
-	ModifiedDate

SalesReason
PK	SalesReasonID
-	Name
-	ReasonType
-	ModifiedDate

SalesOrderHeaderSalesReason
PK,FK1	BusinessEntityID
PK,FK1	SalesOrderID
PK,FK2	SalesReasonID
	ModifiedDate

SalesOrderDetail
PK,FK1	BusinessEntityID
PK,FK1	SalesOrderID
PK	SalesOrderDetailID
	CarrierTrackingNumber
	OrderQty
FK2	ProductID
FK2	SpecialOfferID
	UnitPrice
	UnitPriceDiscount
	LineTotal
U1	rowguid
	ModifiedDate

SpecialOfferProduct
PK,FK2	SpecialOfferID
PK,FK1	ProductID
U1	rowguid
	ModifiedDate

ShoppingCartItem
PK	ShoppingCartItemID
-	ShoppingCartID
-	Quantity
FK1	ProductID
	DateCreated
-	ModifiedDate

Product (partial)
PK,FK2	
PK,FK1	

ProductListPriceHistory
PK,FK1	ProductID
PK	StartDate
	EndDate
	ListPrice
	ModifiedDate

ProductPhoto
PK	ProductPhotoID
	ThumbNailPhoto
	ThumbnailPhotoFileName
	LargePhoto
	LargePhotoFileName
	ModifiedDate

ProductProductPhoto
PK,FK1	ProductID
PK,FK2	ProductPhotoID
	Primary
	ModifiedDate

Product
PK	ProductID
U1	Name
U2	ProductNumber
	MakeFlag
	FinishedGoodsFlag
	Color
	SafetyStockLevel
	ReorderPoint
	StandardCost

ProductSubcategory
PK	ProductSubcategoryID
FK1	ProductCategoryID

ProductCategory
PK	ProductCategoryID

SpecialOffer With Product => SpecialOfferProduct (Aggregate)

Module Person

1. Buat query untuk menampilkan data berikut :

	PersonType	PersonType	TotalPerson
1	IN	Individual Customer	18486
2	EM	Employee	274
3	SP	Sales Person	16
4	SC	Sales Contact	754
5	VC	Vendor Contact	156
6	GC	General Contact	289

2. Buat query untuk menampilkan data person yang hanya ada di countryCode America :

	BusinessEntityId	FullName	EmailAddress	PhoneNumber	Address	AddressType
1	1	Sánchez	ken0@adventure-works.com	697-555-0142	4350 Minute Dr.,Newport Hills,Washington,United States	Home
2	2	Duffy	terri0@adventure-works.com	819-555-0175	7559 Worth Ct.,Renton,Washington,United States	Home
3	3	Tamburello	roberto0@adventure-works.com	212-555-0187	2137 Birchwood Dr,Redmond,Washington,United States	Home
4	4	Walters	rob0@adventure-works.com	612-555-0100	5678 Lakeview Blvd.,Minneapolis,Minnesota,United States	Home
5	5	Erickson	gail0@adventure-works.com	849-555-0139	9435 Breck Court,Bellevue,Washington,United States	Home
6	6	Goldberg	jossef0@adventure-works.com	122-555-0189	5670 Bel Air Dr.,Renton,Washington,United States	Home
7	7	Miller	dylan0@adventure-works.com	181-555-0156	7048 Laurel,Kenmore,Washington,United States	Home
8	8	Margheim	diane1@adventure-works.com	815-555-0138	475 Santa Maria,Everett,Washington,United States	Home
9	9	Matthew	gigi0@adventure-works.com	185-555-0186	7808 Brown St.,Bellevue,Washington,United States	Home
10	10	Raheem	michael6@adventure-works.com	330-555-2568	1234 Seaside Way,San Francisco,California,United States	Home
11	11	Cracium	ovidiu0@adventure-works.com	719-555-0181	5458 Gladstone Drive,Kenmore,Washington,United States	Home
12	12	D'Hers	thierry0@adventure-works.com	168-555-0183	1970 Napa Ct.,Bothell,Washington,United States	Home
13	13	Galvin	janice0@adventure-works.com	473-555-0117	3397 Rancho View Drive,Redmond,Washington,United S...	Home
14	14	Sullivan	michael8@adventure-works.com	465-555-0156	6510 Hacienda Drive,Renton,Washington,United States	Home
15	15	Salavaria	sharon0@adventure-works.com	970-555-0138	7165 Brock Lane,Renton,Washington,United States	Home
16	16	Bradley	david0@adventure-works.com	913-555-0172	3768 Door Way,Redmond,Washington,United States	Home
17	17	Brown	kevin0@adventure-works.com	150-555-0189	7883 Missing Canyon Court,Everett,Washington,United St...	Home
18	18	Wood	john5@adventure-works.com	486-555-0150	9906 Oak Grove Road,Redmond,Washington,United Stat...	Home
19	19	Dempsey	mary2@adventure-works.com	124-555-0114	6307 Greenbelt Way,Bellevue,Washington,United States	Home
20	20	Benshoof	wanida0@adventure-works.com	708-555-0141	6951 Harmony Way,Sammamish,Washington,United Sta...	Home

3. Buat query untuk menampilkan total person yang di group berdarkan personType & Country :

	countryRegionCode	CountryName	PersonTypeDesc	TotalPerson
1	AU	Australia	Sales Person	1
2	AU	Australia	Individual Customer	3591
3	CA	Canada	Sales Person	2
4	CA	Canada	Individual Customer	1571
5	DE	Germany	Sales Person	1
6	DE	Germany	Individual Customer	1780
7	FR	France	Sales Person	1
8	FR	France	Individual Customer	1810
9	GB	United Kingdom	Sales Person	1
10	GB	United Kingdom	Individual Customer	1913
11	US	United States	Employee	274
12	US	United States	Individual Customer	7843
13	US	United States	Sales Person	10

4. Buat pivot query untuk menampilkan data dibawah ini :

	CountryRegionCode	Name	Individual Customer	Employee	Sales Person	Sales Contact	Vendor Contact	General Contact
1	AU	Australia	3591	0	1	0	0	0
2	CA	Canada	1571	0	2	0	0	0
3	DE	Germany	1780	0	1	0	0	0
4	FR	France	1810	0	1	0	0	0
5	GB	United Kingdom	1913	0	1	0	0	0
6	US	United States	7843	274	10	0	0	0

Module HumanResources

5. Buat query untuk menampilkan total employee tiap department

DepartmentID	Name	TotalEmployee
1	Engineering	7
2	Tool Design	4
3	Sales	18
4	Marketing	10
5	Purchasing	13
6	Research and Development	4
7	Production	180
8	Production Control	6
9	Human Resources	6
10	Finance	11
11	Information Services	10
12	Document Control	5
13	Quality Assurance	7
14	Facilities and Maintenance	7
15	Shipping and Receiving	6
16	Executive	2

6. Buat pivot query untuk menampilkan jumlah pegawai tiap department yang digroup berdasarkan shift nya :

	Name	Day	Evening	Night
1	Document Control	3	1	1
2	Engineering	7	0	0
3	Executive	2	0	0
4	Facilities and Maintenance	3	2	2
5	Finance	11	0	0
6	Human Resources	6	0	0
7	Information Services	9	1	0
8	Marketing	10	0	0
9	Production	80	54	46
10	Production Control	4	1	1
11	Purchasing	13	0	0
12	Quality Assurance	5	1	1
13	Research and Development	4	0	0
14	Sales	18	0	0
15	Shipping and Receiving	3	2	1
16	Tool Design	4	0	0

Module Purchasing

7. Buat pivot query untuk menampilkan data PurchaseOrder Vendor (order by status [Completed]) berdasarkan status-nya [1=Pending | 2=Approved | 3=Rejected | 4=Complete] :

	AccountNumber	VendorName	Pending	Approved	Rejected	Completed
1	ALLENSON0001	Allenson Cycles	2	0	0	49
2	TRAINING0001	Training Systems	2	0	0	48
3	LITWARE0001	Litware, Inc.	2	0	1	48
4	INLINEA0001	Inline Accessories	3	0	0	48
5	ELECTRON0002	Electronic Bike Repair & Supplies	3	0	0	48
6	HYBRIDB0001	Hybrid Bicycle Center	3	0	0	48
7	BIKESAT0001	Bike Satellite Inc.	3	0	0	48
8	AMERICAN0001	American Bicycles and Wheels	2	0	1	48
9	TRIKES0001	Trikes, Inc.	2	0	0	48
10	CRUGERB0001	Cruger Bike Company	3	0	0	48
11	WIDEWOR0001	Wide World Importers	3	0	0	48
12	WESTJUN0001	West Junction Cycles	2	0	1	47
13	INNERCI0001	Inner City Bikes	3	0	1	47
14	FIRSTNA0001	First National Sport Co.	3	0	1	47
15	HILLSBI0001	Hill's Bicycle Service	3	0	1	47
16	ADVANCED0001	Advanced Bicycles	3	0	1	47
17	WOODFIT0001	Wood Fitness	2	0	1	47

8. Buat pivot query untuk menampilkan data salesorder yang di order oleh customer dan tampilkan statusnya [1=InProcess | 2=Approved| 3=BackOrdered| 4=Rejected | 5 = Shipped | 6=Cancelled] :

CustomerID	CustomerName	InProcess	Approved	BackOrdered	Rejected	Shipped	Cancelled
11000	Mary Young	0	0	0	0	3	0
11001	Amber Young	0	0	0	0	3	0
11002	Courtney Young	0	0	0	0	3	0
11003	Jenna Young	0	0	0	0	3	0
11004	Chloe Harris	0	0	0	0	3	0
11005	Joe Madan	0	0	0	0	3	0
11006	Chloe Martin	0	0	0	0	3	0
11007	Marshall Xu	0	0	0	0	3	0
11008	Joe Srini	0	0	0	0	3	0
11009	Joe Prasad	0	0	0	0	3	0
11010	Joe Schmidt	0	0	0	0	3	0
11011	Joe Rana	0	0	0	0	3	0
11012	Chloe Thompson	0	0	0	0	2	0
11013	Joe Raman	0	0	0	0	2	0
11014	Chloe Garcia	0	0	0	0	2	0
11015	Joe Subram	0	0	0	0	1	0
11016	Chloe Robinson	0	0	0	0	1	0

9. Buat pivot query untuk menampilkan informasi category product yang dibeli oleh customer :

CustomerID	CustomerName	Accessories	Bikes	Components	Clothing
14886	Albert Martin	0	1	0	0
14900	Albert Moreno	0	1	0	1
14911	Albert Navarro	2	1	0	1
14934	Albert Ortega	2	0	0	3
14924	Albert Ramos	2	0	0	0
14910	Albert Romero	0	1	0	1
14933	Albert Rubio	3	0	0	0
14931	Albert Sanz	6	3	0	1
14921	Albert Serrano	2	0	0	0
14930	Albert Suarez	0	2	0	0
14919	Albert Vazquez	2	0	0	0
12568	Alejandro Anand	2	0	0	2
12548	Alejandro Ander...	2	2	0	1
12565	Alejandro Beck	2	0	0	2
12516	Alejandro Cai	0	0	0	1
12554	Alejandro Chan...	1	0	0	2
12553	Alejandro Chavez	1	0	0	0
12468	Alejandro Chen	1	2	0	0

10. Buat pivot query untuk menampilkan product yang sudah dilakukan discount per tahun dan bulan, pastikan type special offer <> 'No Discount' :

ProductID	Product Name	discountPct	Year Discount	January	February	March	April	May	June	July	August	September	October	November	December
782	Mountain-200 Black, 38	0,40	2014	0	0	1	0	0	0	0	0	0	0	0	0
784	Mountain-200 Black, 46	0,40	2014	0	0	1	0	0	0	0	0	0	0	0	0
984	Mountain-500 Silver, 40	0,40	2014	0	0	1	0	0	0	0	0	0	0	0	0
985	Mountain-500 Silver, 42	0,40	2014	0	0	1	0	0	0	0	0	0	0	0	0
986	Mountain-500 Silver, 44	0,40	2014	0	0	1	0	0	0	0	0	0	0	0	0
987	Mountain-500 Silver, 48	0,40	2014	0	0	1	0	0	0	0	0	0	0	0	0
988	Mountain-500 Silver, 52	0,40	2014	0	0	1	0	0	0	0	0	0	0	0	0
707	Sport-100 Helmet, Red	0,15	2013	0	0	0	1	0	0	0	0	0	0	0	0
708	Sport-100 Helmet, Black	0,15	2013	0	0	0	1	0	0	0	0	0	0	0	0
711	Sport-100 Helmet, Blue	0,15	2013	0	0	0	1	0	0	0	0	0	0	0	0
722	LL Road Frame - Black, 58	0,35	2013	0	0	0	1	0	0	0	0	0	0	0	0
723	LL Road Frame - Black, 60	0,35	2013	0	0	0	1	0	0	0	0	0	0	0	0
724	LL Road Frame - Black, 62	0,35	2013	0	0	0	1	0	0	0	0	0	0	0	0
725	LL Road Frame - Red, 44	0,35	2013	0	0	0	1	0	0	0	0	0	0	0	0
726	LL Road Frame - Red, 48	0,35	2013	0	0	0	1	0	0	0	0	0	0	0	0
727	LL Road Frame - Red, 52	0,35	2013	0	0	0	1	0	0	0	0	0	0	0	0
728	LL Road Frame - Red, 58	0,35	2013	0	0	0	1	0	0	0	0	0	0	0	0
729	LL Road Frame - Red, 60	0,35	2013	0	0	0	1	0	0	0	0	0	0	0	0
730	LL Road Frame - Red, 62	0,35	2013	0	0	0	1	0	0	0	0	0	0	0	0
736	LL Road Frame - Black, 44	0,35	2013	0	0	0	1	0	0	0	0	0	0	0	0
737	LL Road Frame - Black, 48	0,35	2013	0	0	0	1	0	0	0	0	0	0	0	0
738	LL Road Frame - Black, 52	0,35	2013	0	0	0	1	0	0	0	0	0	0	0	0
928	LL Mountain Tire	0,50	2013	0	0	0	1	0	0	0	0	0	0	0	0
929	ML Mountain Tire	0,50	2013	0	0	0	1	0	0	0	0	0	0	0	0
930	HL Mountain Tire	0,50	2013	0	0	0	1	0	0	0	0	0	0	0	0
935	LL Mountain Pedal	0,50	2013	0	0	0	0	0	1	0	0	0	0	0	0
936	ML Mountain Pedal	0,50	2013	0	0	0	0	0	1	0	0	0	0	0	0
937	HL Mountain Pedal	0,50	2013	0	0	0	0	0	1	0	0	0	0	0	0
938	LL Road Pedal	0,50	2013	0	0	0	0	0	1	0	0	0	0	0	0
939	ML Road Pedal	0,50	2013	0	0	0	0	0	1	0	0	0	0	0	0