REHD

PetsDumb

Server	REHD
Author	jonat
Created	Sunday, February 11, 2018 12:20:24 PM
File Path	C:\Users\jonat\DocumentsPC\My Database Documentation\REHD-2018-02-11T12-20-24.pdf

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Databases (1)

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Server Properties

Property	Value
Product	Microsoft SQL Server
Version	13.0.1742.0
Language	English (United States)
Platform	NT x64
Edition	Developer Edition (64-bit)
Processors	4
OS Version	6.3 (16299)
Physical Memory	8075
Is Clustered	False
Root Directory	C:\Program Files\Microsoft SQL Server\MSSQL13.SHAULIS\MSSQL
Collation	SQL_Latin1_General_CP1_CI_AS

Server Settings

Property	Value
Default data file path	C:\Program Files\Microsoft SQL Server\MSSQL13.SHAULIS\MSSQL\DATA\
Default backup file path	C:\Program Files\Microsoft SQL Server\MSSQL13.SHAULIS\MSSQL\Backup
Default log file path	C:\Program Files\Microsoft SQL Server\MSSQL13.SHAULIS\MSSQL\DATA\
Recovery Interval (minutes)	0
Default index fill factor	0
Default backup media retention	0
Compress Backup	False

Advanced Server Settings

Property	Value
Full text upgrade option	2
Locks	0
Nested triggers enabled	True
Allow triggers to fire others	True
Default language	English

Network packet size	4096
Default fulltext language LCID	1033
Two-digit year cutoff	2049
Remote login timeout	10
Cursor threshold	-1
Max text replication size	65536
Parallelism cost threshold	5
Max degree of parallelism	0
Min server memory	16
Max server memory	2048
Scan for startup procs	True
Transform noise words	False
CLR enabled	True
Blocked process threshold	0
Filestream access level	False
Optimize for ad hoc workloads	False

🗀 User databases

Databases (1)

- 🗄 PetsDumb

▤ PetsDumb Database

MS_Description

Not a PetSmart affiliate.

Database Properties

Property	Value
SQL Server Version	SQL Server 2016
Compatibility Level	SQL Server 2016
Last backup time	02/11/2018
Last log backup time	-
Creation date	Feb 9 2018
Users	5
Database Encryption Enabled	True
Database Encryption Algorithm	AES-256
Database size	1872.00 MB
Unallocated space	69.02 MB

Database Options

Property	Value
Compatibility Level	130
Database collation	SQL_Latin1_General_CP1_CI_AS
Restrict access	MULTI_USER
Is read-only	False
Auto close	False
Auto shrink	False
Database status	ONLINE
In standby	False
Cleanly shutdown	False
Supplemental logging enabled	False
Snapshot isolation state	OFF
Read committed snapshot on	False
Recovery model	FULL
Page verify option	CHECKSUM
Auto create statistics	True
Auto update statistics	True
Auto update statistics asynchronously	False

ANSI NULL default	False
ANSI NULL enabled	False
ANSI padding enabled	False
ANSI warnings enabled	False
Arithmetic abort enabled	False
Concatenating NULL yields NULL	False
Numeric roundabort enabled	False
Quoted Identifier On	False
Recursive triggers enabled	False
Close cursors on commit	False
Local cursors by default	False
Fulltext enabled	True
Trustworthy	False
Database chaining	False
Forced parameterization	False
Master key encrypted by server	False
Published	False
Subscribed	False
Merge published	False
Is distribution database	False
Sync with backup	False
Service broker GUID	36580c04-1876-4355-9af6-7c8d3c53ce6a
Service broker enabled	False
Log reuse wait	LOG_BACKUP
Date correlation	False
CDC enabled	False
Encrypted	True
Honor broker priority	False
Default language	English
Default fulltext language LCID	1033
Nested triggers enabled	True
Transform noise words	False
Two-digit year cutoff	2049
Containment	NONE
Target recovery time	60
Database owner	sa

Files

Name	Type	Size	Maxsize	Autogrowth	File Name
PetsDumb	Data	200.00 MB	unlimited	64.00 MB	C:\Program Files\Microsoft SQL

					Server\MSSQL13.SHAULIS\MSSQL\DATA\PetsDumb.mdf
PetsDumb_log	Log	1.63 GB	2048.00 GB	64.00 MB	C:\Program Files\Microsoft SQL Server\MSSQL13.SHAULIS\MSSQL\DATA\PetsDumb_log.ldf

🔳 *Tables*

Objects

Name
app.HolidayDiscount *Tracks Holidays and pricing discounts.*
app.Members *Tracks users who wish to become members with the sale system.*
app.Purchases *Tracks purchases made, maps back to other tables to maintain data integrity.*
app.Vendors *Tracking for vendors.*
arc.Food *Archive temporal table for Food. Later used for Data Warehousing / OLAP analytics.*
arc.HolidayDiscount *Archive temporal table for HolidayDiscount. Later used for Data Warehousing / OLAP analytics.*
arc.Members *Archive temporal table for Members. Later used for Data Warehousing / OLAP analytics.*
arc.Pets *Archive temporal table for Pets. Later used for Data Warehousing / OLAP analytics.*
arc.Purchases *Archive temporal table for Purchases. Later used for Data Warehousing / OLAP analytics.*
arc.Supplies *Archive temporal table for Supplies. Later used for Data Warehousing / OLAP analytics.*
arc.Toys *Archive temporal table for Toys. Later used for Data Warehousing / OLAP analytics.*
arc.Vendors *Archive temporal table for Vendors. Later used for Data Warehousing / OLAP analytics.*
dim.Date *Dimension table for dates.*
dim.TaxRates *Dimension table for tax rates.*
dim.Time *Dimension table for time.*
dim.ZipCode *Dimension table for zip codes.*
inv.Food *Inventory table for food.*
inv.Pets *Inventory table for pets.*
inv.Supplies *Inventory table for supplies.*
inv.Toys *Inventory table for toys.*

🖼 [app].[HolidayDiscount]

MS_Description

Tracks Holidays and pricing discounts.

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	0
Created	8:54:03 AM Saturday, February 10, 2018
Last Modified	11:30:48 AM Sunday, February 11, 2018
System Versioned	True
Remote Data Archive	Disabled
History Table	[arc].[HolidayDiscount]
History Table Row Count (~)	54788
History Table Created	8:54:03 AM Saturday, February 10, 2018
History Table Last Modified	10:58:19 AM Sunday, February 11, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls	Identity
PK C	Hol_ID	bigint	8	False	1 - 1
	HolidayText *Holiday name text.*	varchar(25)	25	False	
	Discount	decimal(10,5)	9	True	
	Active *1 = Active, 0 = Inactive.*	bit	1	False	
FK	ActiveDate *Allows faster OLTP reference for figuring out price and inventory.*	int	4	True	
FK	InactiveDate *Allows faster OLTP reference for figuring out price and inventory.*	int	4	True	
	ValidFrom	datetime2(2)	6	False	
	ValidTo	datetime2(2)	6	False	

Indexes

Key	Name	Key Columns	Unique
PK	PK__HolidayD__ID	Hol_ID	True

Foreign Keys

Name	Columns
FK_HolidayD_ActiveDate	ActiveDate->[dim].[Date].[Date_ID]
FK_HolidayD_InactiveDate	InactiveDate->[dim].[Date].[Date_ID]

SQL Script

```
CREATE TABLE [app].[HolidayDiscount]
(
[Hol_ID] [bigint] NOT NULL IDENTITY(1, 1),
[HolidayText] [varchar] (25) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[Discount] [decimal] (10, 5) NULL,
[Active] [bit] NOT NULL,
[ActiveDate] [int] NULL,
[InactiveDate] [int] NULL,
[ValidFrom] [datetime2] (2) GENERATED ALWAYS AS ROW START NOT NULL,
[ValidTo] [datetime2] (2) GENERATED ALWAYS AS ROW END NOT NULL,
PERIOD FOR SYSTEM_TIME (ValidFrom, ValidTo),
CONSTRAINT [PK__HolidayD__ID] PRIMARY KEY CLUSTERED  ([Hol_ID]) ON [PRIMARY]
) ON [PRIMARY]
WITH
(
SYSTEM_VERSIONING = ON (HISTORY_TABLE = [arc].[HolidayDiscount])
)
GO
ALTER TABLE [app].[HolidayDiscount] ADD CONSTRAINT [FK_HolidayD_ActiveDate] FOREIGN KEY
([ActiveDate]) REFERENCES [dim].[Date] ([Date_ID])
GO
ALTER TABLE [app].[HolidayDiscount] ADD CONSTRAINT [FK_HolidayD_InactiveDate] FOREIGN
KEY ([InactiveDate]) REFERENCES [dim].[Date] ([Date_ID])
GO
EXEC sp_addextendedproperty N'MS_Description', N'Tracks Holidays and pricing
discounts.', 'SCHEMA', N'app', 'TABLE', N'HolidayDiscount', NULL, NULL
GO
EXEC sp_addextendedproperty N'MS_Description', N'1 = Active, 0 = Inactive.', 'SCHEMA',
N'app', 'TABLE', N'HolidayDiscount', 'COLUMN', N'Active'
GO
EXEC sp_addextendedproperty N'MS_Description', N'Allows faster OLTP reference for
figuring out price and inventory.', 'SCHEMA', N'app', 'TABLE', N'HolidayDiscount',
'COLUMN', N'ActiveDate'
GO
EXEC sp_addextendedproperty N'MS_Description', N'Holiday name text.', 'SCHEMA', N'app',
'TABLE', N'HolidayDiscount', 'COLUMN', N'HolidayText'
GO
EXEC sp_addextendedproperty N'MS_Description', N'Allows faster OLTP reference for
```

```
figuring out price and inventory.', 'SCHEMA', N'app', 'TABLE', N'HolidayDiscount',
'COLUMN', N'InactiveDate'
GO
```

Uses

[dim].[Date]

▦ [app].[Members]

MS_Description

Tracks users who wish to become members with the sale system.

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	0
Created	8:52:02 AM Saturday, February 10, 2018
Last Modified	10:55:53 AM Sunday, February 11, 2018
System Versioned	True
Remote Data Archive	Disabled
History Table	[arc].[Members]
History Table Row Count (~)	2000
History Table Created	8:52:02 AM Saturday, February 10, 2018
History Table Last Modified	10:38:17 AM Sunday, February 11, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls	Identity
PK/C	Mem_ID	bigint	8	False	1 - 1
FK	Zip_ID	bigint	8	False	
FK	Ven_ID	bigint	8	True	
	Mem_Name *User name.*	varchar(255)	255	True	
	FirstName	nvarchar(255)	510	True	
	MiddleName	nvarchar(255)	510	True	
	LastName	nvarchar(255)	510	True	
	Suffix	nvarchar(10)	20	True	
	Email	varchar(255)	255	True	
	AddressLine1	nvarchar(255)	510	True	
	AddressLine2	nvarchar(255)	510	True	

	City	nvarchar(100)	200	True	
	ValidFrom	datetime2(2)	6	False	
	ValidTo	datetime2(2)	6	False	

Indexes

Key	Name	Key Columns	Unique
PK C	PK__Members__ID	Mem_ID	True

Foreign Keys

Name	Columns
FK_Members_Ven	Ven_ID->[app].[Vendors].[Ven_ID]
FK_Members_Zip	Zip_ID->[dim].[ZipCode].[Zip_ID]

SQL Script

```
CREATE TABLE [app].[Members]
(
[Mem_ID] [bigint] NOT NULL IDENTITY(1, 1),
[Zip_ID] [bigint] NOT NULL,
[Ven_ID] [bigint] NULL,
[Mem_Name] [varchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[FirstName] [nvarchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[MiddleName] [nvarchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[LastName] [nvarchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Suffix] [nvarchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Email] [varchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[AddressLine1] [nvarchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[AddressLine2] [nvarchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[City] [nvarchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[ValidFrom] [datetime2] (2) GENERATED ALWAYS AS ROW START NOT NULL,
[ValidTo] [datetime2] (2) GENERATED ALWAYS AS ROW END NOT NULL,
PERIOD FOR SYSTEM_TIME (ValidFrom, ValidTo),
CONSTRAINT [PK__Members__ID] PRIMARY KEY CLUSTERED ([Mem_ID]) ON [PRIMARY]
) ON [PRIMARY]
WITH
(
SYSTEM_VERSIONING = ON (HISTORY_TABLE = [arc].[Members])
)
GO
ALTER TABLE [app].[Members] ADD CONSTRAINT [FK_Members_Ven] FOREIGN KEY ([Ven_ID])
REFERENCES [app].[Vendors] ([Ven_ID])
GO
ALTER TABLE [app].[Members] ADD CONSTRAINT [FK_Members_Zip] FOREIGN KEY ([Zip_ID])
```

```
REFERENCES [dim].[ZipCode] ([Zip_ID])
GO
EXEC sp_addextendedproperty N'MS_Description', N'Tracks users who wish to become
members with the sale system.', 'SCHEMA', N'app', 'TABLE', N'Members', NULL, NULL
GO
EXEC sp_addextendedproperty N'MS_Description', N'User name.', 'SCHEMA', N'app',
'TABLE', N'Members', 'COLUMN', N'Mem_Name'
GO
```

Uses

[app].[Vendors]
[dim].[ZipCode]

Used By

[app].[Purchases]

⊞ [app].[Purchases]

MS_Description

Tracks purchases made, maps back to other tables to maintain data integrity.

Properties

Property	Value
Row Count (~)	0
Created	10:55:53 AM Sunday, February 11, 2018
Last Modified	11:52:12 AM Sunday, February 11, 2018
System Versioned	True
Remote Data Archive	Disabled
History Table	[arc].[Purchases]
History Table Row Count (~)	1050000
History Table Created	10:55:53 AM Sunday, February 11, 2018
History Table Last Modified	11:52:12 AM Sunday, February 11, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls	Identity
PK	Pur_ID	bigint	8	False	1 - 1
FK	Zip_ID *Must know location of purchase for tax and shipping.*	bigint	8	False	
FK	Mem_ID *Does not need to be a member to make a purchase.*	bigint	8	True	
FK	Food_ID *Does not need to be a Food item when purchased.*	bigint	8	True	
FK	Pets_ID *Does not need to be a Pets item when purchased.*	bigint	8	True	
FK	Sup_ID *Does not need to be a Supplies item when purchased.*	bigint	8	True	
FK	Toys_ID *Does not need to be a Toys item when purchased.*	bigint	8	True	
FK	Date_ID *Must know date of purchase.*	int	4	False	
FK	Time_ID *Must know time of purchase.*	int	4	False	

	Quantity *Must know how much of item has been purchased for inventory.*	int	4	False	
	price *Left NULL to handle outliers. (Refunds, gifts.)*	money	8	True	
	ValidFrom	datetime2(2)	6	False	
	ValidTo	datetime2(2)	6	False	

Indexes

Key	Name	Key Columns	Unique
PK C	PK__Purchase__ID	Pur_ID	True

Foreign Keys

Name	No Check	Columns
FK_Purchases_Date		Date_ID->[dim].[Date].[Date_ID]
FK_Purchases_Food		Food_ID->[inv].[Food].[Food_ID]
FK_Purchases_Mem		Mem_ID->[app].[Members].[Mem_ID]
FK_Purchases_Pets	True	Pets_ID->[inv].[Pets].[Pets_ID]
FK_Purchases_Sup		Sup_ID->[inv].[Supplies].[Sup_ID]
FK_Purchases_Time		Time_ID->[dim].[Time].[Time_ID]
FK_Purchases_Toys		Toys_ID->[inv].[Toys].[Toys_ID]
FK_Purchases_ZipCode		Zip_ID->[dim].[ZipCode].[Zip_ID]

SQL Script

```
CREATE TABLE [app].[Purchases]
(
[Pur_ID] [bigint] NOT NULL IDENTITY(1, 1),
[Zip_ID] [bigint] NOT NULL,
[Mem_ID] [bigint] NULL,
[Food_ID] [bigint] NULL,
[Pets_ID] [bigint] NULL,
[Sup_ID] [bigint] NULL,
[Toys_ID] [bigint] NULL,
[Date_ID] [int] NOT NULL,
[Time_ID] [int] NOT NULL,
[Quantity] [int] NOT NULL,
[price] [money] NULL,
[ValidFrom] [datetime2] (2) GENERATED ALWAYS AS ROW START NOT NULL,
[ValidTo] [datetime2] (2) GENERATED ALWAYS AS ROW END NOT NULL,
PERIOD FOR SYSTEM_TIME (ValidFrom, ValidTo),
CONSTRAINT [PK__Purchase__ID] PRIMARY KEY CLUSTERED ([Pur_ID]) ON [PRIMARY]
```

```
) ON [PRIMARY]
WITH
(
SYSTEM_VERSIONING = ON (HISTORY_TABLE = [arc].[Purchases])
)
GO
ALTER TABLE [app].[Purchases] ADD CONSTRAINT [FK_Purchases_Date] FOREIGN KEY ([Date_-
ID]) REFERENCES [dim].[Date] ([Date_ID])
GO
ALTER TABLE [app].[Purchases] ADD CONSTRAINT [FK_Purchases_Food] FOREIGN KEY ([Food_-
ID]) REFERENCES [inv].[Food] ([Food_ID])
GO
ALTER TABLE [app].[Purchases] ADD CONSTRAINT [FK_Purchases_Mem] FOREIGN KEY ([Mem_ID])
REFERENCES [app].[Members] ([Mem_ID])
GO
ALTER TABLE [app].[Purchases] WITH NOCHECK ADD CONSTRAINT [FK_Purchases_Pets] FOREIGN
KEY ([Pets_ID]) REFERENCES [inv].[Pets] ([Pets_ID])
GO
ALTER TABLE [app].[Purchases] ADD CONSTRAINT [FK_Purchases_Sup] FOREIGN KEY ([Sup_ID])
REFERENCES [inv].[Supplies] ([Sup_ID])
GO
ALTER TABLE [app].[Purchases] ADD CONSTRAINT [FK_Purchases_Time] FOREIGN KEY ([Time_-
ID]) REFERENCES [dim].[Time] ([Time_ID])
GO
ALTER TABLE [app].[Purchases] ADD CONSTRAINT [FK_Purchases_Toys] FOREIGN KEY ([Toys_-
ID]) REFERENCES [inv].[Toys] ([Toys_ID])
GO
ALTER TABLE [app].[Purchases] ADD CONSTRAINT [FK_Purchases_ZipCode] FOREIGN KEY ([Zip_-
ID]) REFERENCES [dim].[ZipCode] ([Zip_ID])
GO
ALTER TABLE [app].[Purchases] NOCHECK CONSTRAINT [FK_Purchases_Pets]
GO
EXEC sp_addextendedproperty N'MS_Description', N'Tracks purchases made, maps back to
other tables to maintain data integrity.', 'SCHEMA', N'app', 'TABLE', N'Purchases',
NULL, NULL
GO
EXEC sp_addextendedproperty N'MS_Description', N'Must know date of purchase.',
'SCHEMA', N'app', 'TABLE', N'Purchases', 'COLUMN', N'Date_ID'
GO
EXEC sp_addextendedproperty N'MS_Description', N'Does not need to be a Food item when
purchased.', 'SCHEMA', N'app', 'TABLE', N'Purchases', 'COLUMN', N'Food_ID'
GO
EXEC sp_addextendedproperty N'MS_Description', N'Does not need to be a member to make a
purchase.', 'SCHEMA', N'app', 'TABLE', N'Purchases', 'COLUMN', N'Mem_ID'
GO
EXEC sp_addextendedproperty N'MS_Description', N'Does not need to be a Pets item when
purchased.', 'SCHEMA', N'app', 'TABLE', N'Purchases', 'COLUMN', N'Pets_ID'
GO
EXEC sp_addextendedproperty N'MS_Description', N'Left NULL to handle outliers.
(Refunds, gifts.)', 'SCHEMA', N'app', 'TABLE', N'Purchases', 'COLUMN', N'price'
GO
EXEC sp_addextendedproperty N'MS_Description', N'Must know how much of item has been
purchased for inventory.', 'SCHEMA', N'app', 'TABLE', N'Purchases', 'COLUMN',
N'Quantity'
GO
EXEC sp_addextendedproperty N'MS_Description', N'Does not need to be a Supplies item
when purchased.', 'SCHEMA', N'app', 'TABLE', N'Purchases', 'COLUMN', N'Sup_ID'
GO
```

```
EXEC sp_addextendedproperty N'MS_Description', N'Must know time of purchase.',
'SCHEMA', N'app', 'TABLE', N'Purchases', 'COLUMN', N'Time_ID'
GO

EXEC sp_addextendedproperty N'MS_Description', N'Does not need to be a Toys item when
purchased.', 'SCHEMA', N'app', 'TABLE', N'Purchases', 'COLUMN', N'Toys_ID'
GO

EXEC sp_addextendedproperty N'MS_Description', N'Must know location of purchase for tax
and shipping.', 'SCHEMA', N'app', 'TABLE', N'Purchases', 'COLUMN', N'Zip_ID'
GO
```

Uses

[app].[Members]

[dim].[Date]

[dim].[Time]

[dim].[ZipCode]

[inv].[Food]

[inv].[Pets]

[inv].[Supplies]

[inv].[Toys]

🖼 [app].[Vendors]

MS_Description

Tracking for vendors.

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	0
Created	9:23:37 AM Saturday, February 10, 2018
Last Modified	10:48:25 AM Sunday, February 11, 2018
System Versioned	True
Remote Data Archive	Disabled
History Table	[arc].[Vendors]
History Table Row Count (~)	3000
History Table Created	9:23:37 AM Saturday, February 10, 2018
History Table Last Modified	9:27:51 AM Saturday, February 10, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls	Identity
PK C	Ven_ID	bigint	8	False	1 - 1
	Ven_Name *Must know name of vendor.*	varchar(255)	255	False	
	ValidFrom	datetime2(2)	6	False	
	ValidTo	datetime2(2)	6	False	

Indexes

Key	Name	Key Columns	Unique
PK C	PK__Vendors__ID	Ven_ID	True

SQL Script

```
CREATE TABLE [app].[Vendors]
(
```

```
[Ven_ID] [bigint] NOT NULL IDENTITY(1, 1),
[Ven_Name] [varchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[ValidFrom] [datetime2] (2) GENERATED ALWAYS AS ROW START NOT NULL,
[ValidTo] [datetime2] (2) GENERATED ALWAYS AS ROW END NOT NULL,
PERIOD FOR SYSTEM_TIME (ValidFrom, ValidTo),
CONSTRAINT [PK__Vendors__ID] PRIMARY KEY CLUSTERED  ([Ven_ID]) ON [PRIMARY]
) ON [PRIMARY]
WITH
(
SYSTEM_VERSIONING = ON (HISTORY_TABLE = [arc].[Vendors])
)
GO
EXEC sp_addextendedproperty N'MS_Description', N'Tracking for vendors.', 'SCHEMA',
N'app', 'TABLE', N'Vendors', NULL, NULL
GO
EXEC sp_addextendedproperty N'MS_Description', N'Must know name of vendor.', 'SCHEMA',
N'app', 'TABLE', N'Vendors', 'COLUMN', N'Ven_Name'
GO
```

Used By

[app].[Members]
[inv].[Food]
[inv].[Pets]
[inv].[Supplies]
[inv].[Toys]

[arc].[Food]

MS_Description

Archive temporal table for Food. Later used for Data Warehousing / OLAP analytics.

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Compression	PAGE
Row Count (~)	2000
Created	9:25:15 AM Saturday, February 10, 2018
Last Modified	6:47:27 PM Saturday, February 10, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls
	Food_ID	bigint	8	False
	Ven_ID	bigint	8	False
	Food_Name	varchar(255)	255	True
	Price	money	8	True
	Quantity	int	4	True
	Discontinued	bit	1	True
	ActiveDate	int	4	True
	InactiveDate	int	4	True
🔑	ValidFrom	datetime2(2)	6	False
🔑	ValidTo	datetime2(2)	6	False

Indexes

Key	Name	Key Columns	Compression
🔑	ix_Food	ValidTo, ValidFrom	PAGE

SQL Script

```
CREATE TABLE [arc].[Food]
(
[Food_ID] [bigint] NOT NULL,
[Ven_ID] [bigint] NOT NULL,
```

```
[Food_Name] [varchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Price] [money] NULL,
[Quantity] [int] NULL,
[Discontinued] [bit] NULL,
[ActiveDate] [int] NULL,
[InactiveDate] [int] NULL,
[ValidFrom] [datetime2] (2) NOT NULL,
[ValidTo] [datetime2] (2) NOT NULL
) ON [PRIMARY]
WITH
(
DATA_COMPRESSION = PAGE
)
GO
CREATE CLUSTERED INDEX [ix_Food] ON [arc].[Food] ([ValidTo], [ValidFrom]) WITH (DATA_-
COMPRESSION = PAGE) ON [PRIMARY]
GO
EXEC sp_addextendedproperty N'MS_Description', N'Archive temporal table for Food. Later
used for Data Warehousing / OLAP analytics.', 'SCHEMA', N'arc', 'TABLE', N'Food', NULL,
NULL
GO
```

🖾 [arc].[HolidayDiscount]

MS_Description

Archive temporal table for HolidayDiscount. Later used for Data Warehousing / OLAP analytics.

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Compression	PAGE
Row Count (~)	54788
Created	8:54:03 AM Saturday, February 10, 2018
Last Modified	10:58:19 AM Sunday, February 11, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls
	Hol_ID	bigint	8	False
	HolidayText	varchar(25)	25	False
	Discount	decimal(10,5)	9	True
	Active	bit	1	False
	ActiveDate	int	4	True
	InactiveDate	int	4	True
🔑	ValidFrom	datetime2(2)	6	False
🔑	ValidTo	datetime2(2)	6	False

Indexes

Key	Name	Key Columns	Compression
🔑	ix_HolidayDiscount	ValidTo, ValidFrom	PAGE

SQL Script

```
CREATE TABLE [arc].[HolidayDiscount]
(
[Hol_ID] [bigint] NOT NULL,
[HolidayText] [varchar] (25) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[Discount] [decimal] (10, 5) NULL,
[Active] [bit] NOT NULL,
[ActiveDate] [int] NULL,
```

```sql
[InactiveDate] [int] NULL,
[ValidFrom] [datetime2] (2) NOT NULL,
[ValidTo] [datetime2] (2) NOT NULL
) ON [PRIMARY]
WITH
(
DATA_COMPRESSION = PAGE
)
GO
CREATE CLUSTERED INDEX [ix_HolidayDiscount] ON [arc].[HolidayDiscount] ([ValidTo],
[ValidFrom]) WITH (DATA_COMPRESSION = PAGE) ON [PRIMARY]
GO
EXEC sp_addextendedproperty N'MS_Description', N'Archive temporal table for Holiday-
Discount. Later used for Data Warehousing / OLAP analytics.', 'SCHEMA', N'arc',
'TABLE', N'HolidayDiscount', NULL, NULL
GO
```

🗒 [arc].[Members]

MS_Description

Archive temporal table for Members. Later used for Data Warehousing / OLAP analytics.

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Compression	PAGE
Row Count (~)	2000
Created	8:52:02 AM Saturday, February 10, 2018
Last Modified	10:38:17 AM Sunday, February 11, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls
	Mem_ID	bigint	8	False
	Zip_ID	bigint	8	False
	Ven_ID	bigint	8	True
	Mem_Name	varchar(255)	255	True
	FirstName	nvarchar(255)	510	True
	MiddleName	nvarchar(255)	510	True
	LastName	nvarchar(255)	510	True
	Suffix	nvarchar(10)	20	True
	Email	varchar(255)	255	True
	AddressLine1	nvarchar(255)	510	True
	AddressLine2	nvarchar(255)	510	True
	City	nvarchar(100)	200	True
🔑	ValidFrom	datetime2(2)	6	False
🔑	ValidTo	datetime2(2)	6	False

Indexes

Key	Name	Key Columns	Compression
🔑	ix_Members	ValidTo, ValidFrom	PAGE

SQL Script

```sql
CREATE TABLE [arc].[Members]
(
[Mem_ID] [bigint] NOT NULL,
[Zip_ID] [bigint] NOT NULL,
[Ven_ID] [bigint] NULL,
[Mem_Name] [varchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[FirstName] [nvarchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[MiddleName] [nvarchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[LastName] [nvarchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Suffix] [nvarchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Email] [varchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[AddressLine1] [nvarchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[AddressLine2] [nvarchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[City] [nvarchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[ValidFrom] [datetime2] (2) NOT NULL,
[ValidTo] [datetime2] (2) NOT NULL
) ON [PRIMARY]
WITH
(
DATA_COMPRESSION = PAGE
)
GO
CREATE CLUSTERED INDEX [ix_Members] ON [arc].[Members] ([ValidTo], [ValidFrom]) WITH
(DATA_COMPRESSION = PAGE) ON [PRIMARY]
GO
EXEC sp_addextendedproperty N'MS_Description', N'Archive temporal table for Members.
Later used for Data Warehousing / OLAP analytics.', 'SCHEMA', N'arc', 'TABLE',
N'Members', NULL, NULL
GO
```

▦ [arc].[Pets]

MS_Description

Archive temporal table for Pets. Later used for Data Warehousing / OLAP analytics.

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Compression	PAGE
Row Count (~)	2000
Created	9:25:34 AM Saturday, February 10, 2018
Last Modified	6:47:39 PM Saturday, February 10, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls
	Pets_ID	bigint	8	False
	Ven_ID	bigint	8	False
	Pets_Name	varchar(255)	255	True
	Price	money	8	True
	Quantity	int	4	True
	Discontinued	bit	1	True
	ActiveDate	int	4	True
	InactiveDate	int	4	True
🔑	ValidFrom	datetime2(2)	6	False
🔑	ValidTo	datetime2(2)	6	False

Indexes

Key	Name	Key Columns	Compression
🔑	ix_Pets	ValidTo, ValidFrom	PAGE

SQL Script

```
CREATE TABLE [arc].[Pets]
(
[Pets_ID] [bigint] NOT NULL,
[Ven_ID] [bigint] NOT NULL,
```

```sql
[Pets_Name] [varchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Price] [money] NULL,
[Quantity] [int] NULL,
[Discontinued] [bit] NULL,
[ActiveDate] [int] NULL,
[InactiveDate] [int] NULL,
[ValidFrom] [datetime2] (2) NOT NULL,
[ValidTo] [datetime2] (2) NOT NULL
) ON [PRIMARY]
WITH
(
DATA_COMPRESSION = PAGE
)
GO
CREATE CLUSTERED INDEX [ix_Pets] ON [arc].[Pets] ([ValidTo], [ValidFrom]) WITH (DATA_-
COMPRESSION = PAGE) ON [PRIMARY]
GO
EXEC sp_addextendedproperty N'MS_Description', N'Archive temporal table for Pets. Later
used for Data Warehousing / OLAP analytics.', 'SCHEMA', N'arc', 'TABLE', N'Pets', NULL,
NULL
GO
```

▦ [arc].[Purchases]

MS_Description

Archive temporal table for Purchases. Later used for Data Warehousing / OLAP analytics.

Properties

Property	Value
Heap	True
Row Count (~)	1050000
Created	10:55:53 AM Sunday, February 11, 2018
Last Modified	11:52:12 AM Sunday, February 11, 2018

Columns

Name	Data Type	Max Length (Bytes)	Allow Nulls
Pur_ID	bigint	8	False
Zip_ID	bigint	8	False
Mem_ID	bigint	8	True
Food_ID	bigint	8	True
Pets_ID	bigint	8	True
Sup_ID	bigint	8	True
Toys_ID	bigint	8	True
Date_ID	int	4	False
Time_ID	int	4	False
Quantity	int	4	False
price	money	8	True
ValidFrom	datetime2(2)	6	False
ValidTo	datetime2(2)	6	False

SQL Script

```
CREATE TABLE [arc].[Purchases]
(
[Pur_ID] [bigint] NOT NULL,
[Zip_ID] [bigint] NOT NULL,
[Mem_ID] [bigint] NULL,
[Food_ID] [bigint] NULL,
[Pets_ID] [bigint] NULL,
[Sup_ID] [bigint] NULL,
[Toys_ID] [bigint] NULL,
```

```
[Date_ID] [int] NOT NULL,
[Time_ID] [int] NOT NULL,
[Quantity] [int] NOT NULL,
[price] [money] NULL,
[ValidFrom] [datetime2] (2) NOT NULL,
[ValidTo] [datetime2] (2) NOT NULL
) ON [PRIMARY]
GO
EXEC sp_addextendedproperty N'MS_Description', N'Archive temporal table for Purchases.
Later used for Data Warehousing / OLAP analytics.', 'SCHEMA', N'arc', 'TABLE',
N'Purchases', NULL, NULL
GO
```

⊞ [arc].[Supplies]

MS_Description

Archive temporal table for Supplies. Later used for Data Warehousing / OLAP analytics.

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Compression	PAGE
Row Count (~)	2000
Created	9:26:09 AM Saturday, February 10, 2018
Last Modified	6:47:48 PM Saturday, February 10, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls
	Sup_ID	bigint	8	False
	Ven_ID	bigint	8	False
	Supplies_Name	varchar(255)	255	True
	Price	money	8	True
	Quantity	int	4	True
	Discontinued	bit	1	True
	ActiveDate	int	4	True
	InactiveDate	int	4	True
🔑	ValidFrom	datetime2(2)	6	False
🔑	ValidTo	datetime2(2)	6	False

Indexes

Key	Name	Key Columns	Compression
🔑	ix_Supplies	ValidTo, ValidFrom	PAGE

SQL Script

```
CREATE TABLE [arc].[Supplies]
(
[Sup_ID] [bigint] NOT NULL,
[Ven_ID] [bigint] NOT NULL,
```

```
[Supplies_Name] [varchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Price] [money] NULL,
[Quantity] [int] NULL,
[Discontinued] [bit] NULL,
[ActiveDate] [int] NULL,
[InactiveDate] [int] NULL,
[ValidFrom] [datetime2] (2) NOT NULL,
[ValidTo] [datetime2] (2) NOT NULL,
) ON [PRIMARY]
WITH
(
DATA_COMPRESSION = PAGE
)
GO
CREATE CLUSTERED INDEX [ix_Supplies] ON [arc].[Supplies] ([ValidTo], [ValidFrom]) WITH
(DATA_COMPRESSION = PAGE) ON [PRIMARY]
GO
EXEC sp_addextendedproperty N'MS_Description', N'Archive temporal table for Supplies.
Later used for Data Warehousing / OLAP analytics.', 'SCHEMA', N'arc', 'TABLE',
N'Supplies', NULL, NULL
GO
```

⊞ [arc].[Toys]

MS_Description

Archive temporal table for Toys. Later used for Data Warehousing / OLAP analytics.

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Compression	PAGE
Row Count (~)	2000
Created	9:24:43 AM Saturday, February 10, 2018
Last Modified	6:47:55 PM Saturday, February 10, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls
	Toys_ID	bigint	8	False
	Ven_ID	bigint	8	False
	Toys_Name	varchar(255)	255	True
	Price	money	8	True
	Quantity	int	4	True
	Discontinued	bit	1	True
	ActiveDate	int	4	True
	InactiveDate	int	4	True
🔑	ValidFrom	datetime2(2)	6	False
🔑	ValidTo	datetime2(2)	6	False

Indexes

Key	Name	Key Columns	Compression
🔑	ix_Toys	ValidTo, ValidFrom	PAGE

SQL Script

```
CREATE TABLE [arc].[Toys]
(
[Toys_ID] [bigint] NOT NULL,
[Ven_ID] [bigint] NOT NULL,
```

```sql
[Toys_Name] [varchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Price] [money] NULL,
[Quantity] [int] NULL,
[Discontinued] [bit] NULL,
[ActiveDate] [int] NULL,
[InactiveDate] [int] NULL,
[ValidFrom] [datetime2] (2) NOT NULL,
[ValidTo] [datetime2] (2) NOT NULL
) ON [PRIMARY]
WITH
(
DATA_COMPRESSION = PAGE
)
GO
CREATE CLUSTERED INDEX [ix_Toys] ON [arc].[Toys] ([ValidTo], [ValidFrom]) WITH (DATA_-
COMPRESSION = PAGE) ON [PRIMARY]
GO
EXEC sp_addextendedproperty N'MS_Description', N'Archive temporal table for Toys. Later
used for Data Warehousing / OLAP analytics.', 'SCHEMA', N'arc', 'TABLE', N'Toys', NULL,
NULL
GO
```

🖼 [arc].[Vendors]

MS_Description

Archive temporal table for Vendors. Later used for Data Warehousing / OLAP analytics.

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Compression	PAGE
Row Count (~)	3000
Created	9:23:37 AM Saturday, February 10, 2018
Last Modified	9:27:51 AM Saturday, February 10, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls
	Ven_ID	bigint	8	False
	Ven_Name	varchar(255)	255	False
🔑	ValidFrom	datetime2(2)	6	False
🔑	ValidTo	datetime2(2)	6	False

Indexes

Key	Name	Key Columns	Compression
🔑	ix_Vendors	ValidTo, ValidFrom	PAGE

SQL Script

```
CREATE TABLE [arc].[Vendors]
(
[Ven_ID] [bigint] NOT NULL,
[Ven_Name] [varchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[ValidFrom] [datetime2] (2) NOT NULL,
[ValidTo] [datetime2] (2) NOT NULL
) ON [PRIMARY]
WITH
(
DATA_COMPRESSION = PAGE
)
GO
```

```sql
CREATE CLUSTERED INDEX [ix_Vendors] ON [arc].[Vendors] ([ValidTo], [ValidFrom]) WITH
(DATA_COMPRESSION = PAGE) ON [PRIMARY]
GO

EXEC sp_addextendedproperty N'MS_Description', N'Archive temporal table for Vendors.
Later used for Data Warehousing / OLAP analytics.', 'SCHEMA', N'arc', 'TABLE',
N'Vendors', NULL, NULL
GO
```

🖼 [dim].[Date]

MS_Description

Dimension table for dates.

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	54787
Created	10:46:21 PM Friday, February 9, 2018
Last Modified	11:25:06 AM Sunday, February 11, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls
PK C	Date_ID	int	4	False
	Date	datetime	8	False
	Day	char(2)	2	False
	DaySuffix	varchar(4)	4	False
	DayOfWeek	varchar(9)	9	False
	DOWInMonth	tinyint	1	False
	DayOfYear	int	4	False
	WeekOfYear	tinyint	1	False
	WeekOfMonth	tinyint	1	False
	Month	char(2)	2	False
	MonthName	varchar(9)	9	False
	Quarter	tinyint	1	False
	QuarterName	varchar(6)	6	False
	Year	char(4)	4	False
	StandardDate	varchar(10)	10	True

Indexes

		Key Column	Included Column			Compress	Page Lock	Row Lock	Fill Facto

		ns	ns			ion	s	s	r
PK C	PK__Date__ID	Date_-ID			True				90
	NonClusteredColumn-StoreIndex-20180210-090548 *The table will not change often, this will enhance the performance when referencing this table greatly.*		Date_-ID, Date, Day, Day-Suffix, DayOf-Week, DOWIn-Month, DayOf-Year, Week-OfYear, Week-Of-Month, Month, Month-Name, Quarter, Quarter-Name, Year, StandardDate	Columnstore		COLU MNS TORE	False	False	

SQL Script

```sql
CREATE TABLE [dim].[Date]
(
[Date_ID] [int] NOT NULL,
[Date] [datetime] NOT NULL,
[Day] [char] (2) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[DaySuffix] [varchar] (4) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[DayOfWeek] [varchar] (9) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[DOWInMonth] [tinyint] NOT NULL,
[DayOfYear] [int] NOT NULL,
[WeekOfYear] [tinyint] NOT NULL,
[WeekOfMonth] [tinyint] NOT NULL,
[Month] [char] (2) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[MonthName] [varchar] (9) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[Quarter] [tinyint] NOT NULL,
[QuarterName] [varchar] (6) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[Year] [char] (4) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[StandardDate] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL
) ON [PRIMARY]
GO
ALTER TABLE [dim].[Date] ADD CONSTRAINT [PK__Date__ID] PRIMARY KEY CLUSTERED  ([Date_-ID]) ON [PRIMARY]
GO
CREATE NONCLUSTERED COLUMNSTORE INDEX [NonClusteredColumnStoreIndex-20180210-090548] ON
[dim].[Date] ([Date_ID], [Date], [Day], [DaySuffix], [DayOfWeek], [DOWInMonth], [DayOf-Year], [WeekOfYear], [WeekOfMonth], [Month], [MonthName], [Quarter], [QuarterName], [Year], [StandardDate]) ON [PRIMARY]
```

```
GO
EXEC sp_addextendedproperty N'MS_Description', N'Dimension table for dates.', 'SCHEMA',
N'dim', 'TABLE', N'Date', NULL, NULL
GO
EXEC sp_addextendedproperty N'MS_Description', N'
The table will not change often, this will enhance the performance when referencing
this table greatly.', 'SCHEMA', N'dim', 'TABLE', N'Date', 'INDEX', N'NonClusteredColumn-
StoreIndex-20180210-090548'
GO
```

Used By

[app].[HolidayDiscount]

[app].[Purchases]

[inv].[Food]

[inv].[Pets]

[inv].[Supplies]

[inv].[Toys]

▦ [dim].[TaxRates]

MS_Description

Dimension table for tax rates.

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	627
Created	10:48:03 PM Friday, February 9, 2018
Last Modified	11:51:55 AM Sunday, February 11, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls	Identity
PK	Tax_ID	bigint	8	False	1 - 1
FK	Zip_ID	bigint	8	False	
	TaxRegionName	varchar(50)	50	False	
	StateRate	varchar(50)	50	False	
	EstimatedCombinedRate	varchar(50)	50	False	
	EstimatedCountyRate	varchar(50)	50	False	
	EstimatedCityRate	varchar(50)	50	False	
	EstimatedSpecialRate	varchar(50)	50	False	
	RiskLevel	varchar(50)	50	False	

Indexes

Key	Name	Key Columns	Included Columns	Type	Unique	Compression	Page Locks	Row Locks
PK	PK__TaxRates__ID	Tax_ID			True			
	NonClusteredColumn-StoreIndex-20180210-085954 *The table will not change often, this will enhance*		Tax_ID, Zip_ID, Tax-Region-Name,	Columnstore		COLUMNSTORE	False	False

	the performance when referencing this table greatly.		State-Rate, Estimated-CombinedRate, EstimatedCounty-Rate, EstimatedCity-Rate, EstimatedSpecial-Rate				

Foreign Keys

Name	Columns
FK_TaxRates_Zip	Zip_ID->[dim].[ZipCode].[Zip_ID]

SQL Script

```
CREATE TABLE [dim].[TaxRates]
(
[Tax_ID] [bigint] NOT NULL IDENTITY(1, 1),
[Zip_ID] [bigint] NOT NULL,
[TaxRegionName] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[StateRate] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[EstimatedCombinedRate] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[EstimatedCountyRate] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[EstimatedCityRate] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[EstimatedSpecialRate] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[RiskLevel] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL
) ON [PRIMARY]
GO
ALTER TABLE [dim].[TaxRates] ADD CONSTRAINT [PK__TaxRates__ID] PRIMARY KEY CLUSTERED
([Tax_ID]) ON [PRIMARY]
GO
CREATE NONCLUSTERED COLUMNSTORE INDEX [NonClusteredColumnStoreIndex-20180210-085954] ON
[dim].[TaxRates] ([Tax_ID], [Zip_ID], [TaxRegionName], [StateRate], [EstimatedCombined-
Rate], [EstimatedCountyRate], [EstimatedCityRate], [EstimatedSpecialRate]) ON [PRIMARY]
GO
ALTER TABLE [dim].[TaxRates] ADD CONSTRAINT [FK_TaxRates_Zip] FOREIGN KEY ([Zip_ID])
REFERENCES [dim].[ZipCode] ([Zip_ID])
GO
EXEC sp_addextendedproperty N'MS_Description', N'Dimension table for tax rates.',
'SCHEMA', N'dim', 'TABLE', N'TaxRates', NULL, NULL
GO
EXEC sp_addextendedproperty N'MS_Description', N'The table will not change often, this
will enhance the performance when referencing this table greatly.', 'SCHEMA', N'dim',
'TABLE', N'TaxRates', 'INDEX', N'NonClusteredColumnStoreIndex-20180210-085954'
GO
```

Uses

[dim].[ZipCode]

🖽 [dim].[Time]

MS_Description

Dimension table for time.

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	86400
Created	10:50:57 PM Friday, February 9, 2018
Last Modified	10:55:53 AM Sunday, February 11, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls	Identity
PK C	Time_ID	int	4	False	1 - 1
	Time	char(8)	8	False	
	Hour	char(2)	2	False	
	MilitaryHour	char(2)	2	False	
	Minute	char(2)	2	False	
	Second	char(2)	2	False	
	AmPm	char(2)	2	False	
	StandardTime	char(11)	11	True	

Indexes

Key	Name	Key Columns	Included Columns	Type	Unique	Compression	Page Locks	Row Locks
PK C	PK__Time__ID	Time_ID			True			
	NonClusteredColumn-StoreIndex-20180210-090035 *The table will not change often, this will enhance the performance when referencing this table greatly.*		Time_ID, Time, Hour, Military-Hour, Minute, Second, AmPm, Standard-	Columnstore		COLUMNSTORE	False	False

			Time				

SQL Script

```sql
CREATE TABLE [dim].[Time]
(
[Time_ID] [int] NOT NULL IDENTITY(1, 1),
[Time] [char] (8) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[Hour] [char] (2) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[MilitaryHour] [char] (2) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[Minute] [char] (2) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[Second] [char] (2) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[AmPm] [char] (2) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[StandardTime] [char] (11) COLLATE SQL_Latin1_General_CP1_CI_AS NULL
) ON [PRIMARY]
GO
ALTER TABLE [dim].[Time] ADD CONSTRAINT [PK__Time__ID] PRIMARY KEY CLUSTERED  ([Time_-
ID]) ON [PRIMARY]
GO
CREATE NONCLUSTERED COLUMNSTORE INDEX [NonClusteredColumnStoreIndex-20180210-090035] ON
[dim].[Time] ([Time_ID], [Time], [Hour], [MilitaryHour], [Minute], [Second], [AmPm],
[StandardTime]) ON [PRIMARY]
GO
EXEC sp_addextendedproperty N'MS_Description', N'Dimension table for time.', 'SCHEMA',
N'dim', 'TABLE', N'Time', NULL, NULL
GO
EXEC sp_addextendedproperty N'MS_Description', N'The table will not change often, this
will enhance the performance when referencing this table greatly.', 'SCHEMA', N'dim',
'TABLE', N'Time', 'INDEX', N'NonClusteredColumnStoreIndex-20180210-090035'
GO
```

Used By

[app].[Purchases]

🖾 [dim].[ZipCode]

MS_Description

Dimension table for zip codes.

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	42741
Created	10:53:30 PM Friday, February 9, 2018
Last Modified	10:55:53 AM Sunday, February 11, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls	Identity
PK C ⚿ ♣	Zip_ID	bigint	8	False	1 - 1
♣	ZipCode	varchar(5)	5	False	
♣	Latitude	varchar(16)	16	False	
♣	Longitude	varchar(16)	16	False	
♣	City	varchar(26)	26	False	
♣	StateProvince	varchar(2)	2	False	
♣	County	varchar(25)	25	False	

Indexes

Key	Name	Key Columns	Included Columns	Type	Unique	Compression	Page Locks	Row Locks
PK C ⚿	PK__ZipCode__ID	Zip_ID			True			
	NonClusteredColumn-StoreIndex-20180210-090100 *The table will not change often, this will enhance the performance when referencing this table greatly.*		Zip_ID, ZipCode, Latitude, Longitude, City, State-Province, County	Columnstore		COLU MNST ORE	False	False

SQL Script

```sql
CREATE TABLE [dim].[ZipCode]
(
[Zip_ID] [bigint] NOT NULL IDENTITY(1, 1),
[ZipCode] [varchar] (5) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[Latitude] [varchar] (16) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[Longitude] [varchar] (16) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[City] [varchar] (26) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[StateProvince] [varchar] (2) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[County] [varchar] (25) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL
) ON [PRIMARY]
GO
ALTER TABLE [dim].[ZipCode] ADD CONSTRAINT [PK__ZipCode__ID] PRIMARY KEY CLUSTERED
([Zip_ID]) ON [PRIMARY]
GO
CREATE NONCLUSTERED COLUMNSTORE INDEX [NonClusteredColumnStoreIndex-20180210-090100] ON
[dim].[ZipCode] ([Zip_ID], [ZipCode], [Latitude], [Longitude], [City], [StateProvince],
[County]) ON [PRIMARY]
GO
EXEC sp_addextendedproperty N'MS_Description', N'Dimension table for zip codes.',
'SCHEMA', N'dim', 'TABLE', N'ZipCode', NULL, NULL
GO
EXEC sp_addextendedproperty N'MS_Description', N'The table will not change often, this
will enhance the performance when referencing this table greatly.', 'SCHEMA', N'dim',
'TABLE', N'ZipCode', 'INDEX', N'NonClusteredColumnStoreIndex-20180210-090100'
GO
```

Used By

[app].[Members]
[app].[Purchases]
[dim].[TaxRates]

⊞ [inv].[Food]

MS_Description

Inventory table for food.

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	0
Created	9:25:15 AM Saturday, February 10, 2018
Last Modified	10:55:53 AM Sunday, February 11, 2018
System Versioned	True
Remote Data Archive	Disabled
History Table	[arc].[Food]
History Table Row Count (~)	2000
History Table Created	9:25:15 AM Saturday, February 10, 2018
History Table Last Modified	6:47:27 PM Saturday, February 10, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls	Identity
PK C	Food_ID	bigint	8	False	1 - 1
FK	Ven_ID	bigint	8	False	
	Food_Name	varchar(255)	255	True	
	Price	money	8	True	
	Quantity	int	4	True	
	Discontinued *1 = Discontinued, 0 = Continued.*	bit	1	True	
FK	ActiveDate *Allows faster OLTP reference for figuring out price and inventory.*	int	4	True	
FK	InactiveDate *Allows faster OLTP reference for figuring out price and inventory.*	int	4	True	
	ValidFrom	datetime2(2)	6	False	
	ValidTo	datetime2(2)	6	False	

Indexes

Key	Name	Key Columns	Unique
PK/C	PK__Food__ID	Food_ID	True

Foreign Keys

Name	Columns
FK_Food_ActiveDate	ActiveDate->[dim].[Date].[Date_ID]
FK_Food_InactiveDate	InactiveDate->[dim].[Date].[Date_ID]
FK_Food_Ven	Ven_ID->[app].[Vendors].[Ven_ID]

SQL Script

```
CREATE TABLE [inv].[Food]
(
[Food_ID] [bigint] NOT NULL IDENTITY(1, 1),
[Ven_ID] [bigint] NOT NULL,
[Food_Name] [varchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Price] [money] NULL,
[Quantity] [int] NULL,
[Discontinued] [bit] NULL,
[ActiveDate] [int] NULL,
[InactiveDate] [int] NULL,
[ValidFrom] [datetime2] (2) GENERATED ALWAYS AS ROW START NOT NULL,
[ValidTo] [datetime2] (2) GENERATED ALWAYS AS ROW END NOT NULL,
PERIOD FOR SYSTEM_TIME (ValidFrom, ValidTo),
CONSTRAINT [PK__Food__ID] PRIMARY KEY CLUSTERED  ([Food_ID]) ON [PRIMARY]
) ON [PRIMARY]
WITH
(
SYSTEM_VERSIONING = ON (HISTORY_TABLE = [arc].[Food])
)
GO
ALTER TABLE [inv].[Food] ADD CONSTRAINT [FK_Food_ActiveDate] FOREIGN KEY ([ActiveDate])
REFERENCES [dim].[Date] ([Date_ID])
GO
ALTER TABLE [inv].[Food] ADD CONSTRAINT [FK_Food_InactiveDate] FOREIGN KEY ([Inactive-
Date]) REFERENCES [dim].[Date] ([Date_ID])
GO
ALTER TABLE [inv].[Food] ADD CONSTRAINT [FK_Food_Ven] FOREIGN KEY ([Ven_ID]) REFERENCES
[app].[Vendors] ([Ven_ID])
GO
EXEC sp_addextendedproperty N'MS_Description', N'Inventory table for food.', 'SCHEMA',
N'inv', 'TABLE', N'Food', NULL, NULL
GO
EXEC sp_addextendedproperty N'MS_Description', N'Allows faster OLTP reference for
```

```
figuring out price and inventory.', 'SCHEMA', N'inv', 'TABLE', N'Food', 'COLUMN',
N'ActiveDate'
GO
EXEC sp_addextendedproperty N'MS_Description', N'1 = Discontinued, 0 = Continued.',
'SCHEMA', N'inv', 'TABLE', N'Food', 'COLUMN', N'Discontinued'
GO
EXEC sp_addextendedproperty N'MS_Description', N'Allows faster OLTP reference for
figuring out price and inventory.', 'SCHEMA', N'inv', 'TABLE', N'Food', 'COLUMN',
N'InactiveDate'
GO
```

Uses

[app].[Vendors]
[dim].[Date]

Used By

[app].[Purchases]

⊞ [inv].[Pets]

MS_Description

Inventory table for pets.

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	0
Created	9:25:34 AM Saturday, February 10, 2018
Last Modified	11:31:15 AM Sunday, February 11, 2018
System Versioned	True
Remote Data Archive	Disabled
History Table	[arc].[Pets]
History Table Row Count (~)	2000
History Table Created	9:25:34 AM Saturday, February 10, 2018
History Table Last Modified	6:47:39 PM Saturday, February 10, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls	Identity
FK P C	Pets_ID	bigint	8	False	1 - 1
FK P	Ven_ID	bigint	8	False	
	Pets_Name	varchar(255)	255	True	
	Price	money	8	True	
	Quantity	int	4	True	
	Discontinued *1 = Discontinued, 0 = Continued.*	bit	1	True	
FK P	ActiveDate *Allows faster OLTP reference for figuring out price and inventory.*	int	4	True	
FK P	InactiveDate *Allows faster OLTP reference for figuring out price and inventory.*	int	4	True	
	ValidFrom	datetime2(2)	6	False	
	ValidTo	datetime2(2)	6	False	

Indexes

Key	Name	Key Columns	Unique
PK C	PK__Pets__ID	Pets_ID	True

Foreign Keys

Name	Columns
FK_Pets_ActiveDate	ActiveDate->[dim].[Date].[Date_ID]
FK_Pets_InactiveDate	InactiveDate->[dim].[Date].[Date_ID]
FK_Pets_Ven	Ven_ID->[app].[Vendors].[Ven_ID]

SQL Script

```
CREATE TABLE [inv].[Pets]
(
[Pets_ID] [bigint] NOT NULL IDENTITY(1, 1),
[Ven_ID] [bigint] NOT NULL,
[Pets_Name] [varchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Price] [money] NULL,
[Quantity] [int] NULL,
[Discontinued] [bit] NULL,
[ActiveDate] [int] NULL,
[InactiveDate] [int] NULL,
[ValidFrom] [datetime2] (2) GENERATED ALWAYS AS ROW START NOT NULL,
[ValidTo] [datetime2] (2) GENERATED ALWAYS AS ROW END NOT NULL,
PERIOD FOR SYSTEM_TIME (ValidFrom, ValidTo),
CONSTRAINT [PK__Pets__ID] PRIMARY KEY CLUSTERED ([Pets_ID]) ON [PRIMARY]
) ON [PRIMARY]
WITH
(
SYSTEM_VERSIONING = ON (HISTORY_TABLE = [arc].[Pets])
)
GO
ALTER TABLE [inv].[Pets] ADD CONSTRAINT [FK_Pets_ActiveDate] FOREIGN KEY ([ActiveDate])
REFERENCES [dim].[Date] ([Date_ID])
GO
ALTER TABLE [inv].[Pets] ADD CONSTRAINT [FK_Pets_InactiveDate] FOREIGN KEY ([Inactive-
Date]) REFERENCES [dim].[Date] ([Date_ID])
GO
ALTER TABLE [inv].[Pets] ADD CONSTRAINT [FK_Pets_Ven] FOREIGN KEY ([Ven_ID]) REFERENCES
[app].[Vendors] ([Ven_ID])
GO
EXEC sp_addextendedproperty N'MS_Description', N'Inventory table for pets.', 'SCHEMA',
N'inv', 'TABLE', N'Pets', NULL, NULL
GO
EXEC sp_addextendedproperty N'MS_Description', N'Allows faster OLTP reference for
```

```
figuring out price and inventory.', 'SCHEMA', N'inv', 'TABLE', N'Pets', 'COLUMN',
N'ActiveDate'
GO
EXEC sp_addextendedproperty N'MS_Description', N'1 = Discontinued, 0 = Continued.',
'SCHEMA', N'inv', 'TABLE', N'Pets', 'COLUMN', N'Discontinued'
GO
EXEC sp_addextendedproperty N'MS_Description', N'Allows faster OLTP reference for
figuring out price and inventory.', 'SCHEMA', N'inv', 'TABLE', N'Pets', 'COLUMN',
N'InactiveDate'
GO
```

Uses

[app].[Vendors]
[dim].[Date]

Used By

[app].[Purchases]

▦ [inv].[Supplies]

MS_Description

Inventory table for supplies.

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	0
Created	9:26:09 AM Saturday, February 10, 2018
Last Modified	10:55:53 AM Sunday, February 11, 2018
System Versioned	True
Remote Data Archive	Disabled
History Table	[arc].[Supplies]
History Table Row Count (~)	2000
History Table Created	9:26:09 AM Saturday, February 10, 2018
History Table Last Modified	6:47:48 PM Saturday, February 10, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls	Identity
PK C	Sup_ID	bigint	8	False	1 - 1
FK	Ven_ID	bigint	8	False	
	Supplies_Name	varchar(255)	255	True	
	Price	money	8	True	
	Quantity *1 = Discontinued, 0 = Continued.*	int	4	True	
	Discontinued	bit	1	True	
FK	ActiveDate *Allows faster OLTP reference for figuring out price and inventory.*	int	4	True	
FK	InactiveDate *Allows faster OLTP reference for figuring out price and inventory.*	int	4	True	
	ValidFrom	datetime2(2)	6	False	
	ValidTo	datetime2(2)	6	False	

Indexes

Key	Name	Key Columns	Unique
PK C	PK__Supplies__ID	Sup_ID	True

Foreign Keys

Name	Columns
FK_Supplies_ActiveDate	ActiveDate->[dim].[Date].[Date_ID]
FK_Supplies_InctiveDate	InactiveDate->[dim].[Date].[Date_ID]
FK_Supplies_Ven	Ven_ID->[app].[Vendors].[Ven_ID]

SQL Script

```
CREATE TABLE [inv].[Supplies]
(
[Sup_ID] [bigint] NOT NULL IDENTITY(1, 1),
[Ven_ID] [bigint] NOT NULL,
[Supplies_Name] [varchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Price] [money] NULL,
[Quantity] [int] NULL,
[Discontinued] [bit] NULL,
[ActiveDate] [int] NULL,
[InactiveDate] [int] NULL,
[ValidFrom] [datetime2] (2) GENERATED ALWAYS AS ROW START NOT NULL,
[ValidTo] [datetime2] (2) GENERATED ALWAYS AS ROW END NOT NULL,
PERIOD FOR SYSTEM_TIME (ValidFrom, ValidTo),
CONSTRAINT [PK__Supplies__ID] PRIMARY KEY CLUSTERED  ([Sup_ID]) ON [PRIMARY]
) ON [PRIMARY]
WITH
(
SYSTEM_VERSIONING = ON (HISTORY_TABLE = [arc].[Supplies])
)
GO
ALTER TABLE [inv].[Supplies] ADD CONSTRAINT [FK_Supplies_ActiveDate] FOREIGN KEY
([ActiveDate]) REFERENCES [dim].[Date] ([Date_ID])
GO
ALTER TABLE [inv].[Supplies] ADD CONSTRAINT [FK_Supplies_InctiveDate] FOREIGN KEY
([InactiveDate]) REFERENCES [dim].[Date] ([Date_ID])
GO
ALTER TABLE [inv].[Supplies] ADD CONSTRAINT [FK_Supplies_Ven] FOREIGN KEY ([Ven_ID])
REFERENCES [app].[Vendors] ([Ven_ID])
GO
EXEC sp_addextendedproperty N'MS_Description', N'Inventory table for supplies.',
'SCHEMA', N'inv', 'TABLE', N'Supplies', NULL, NULL
GO
EXEC sp_addextendedproperty N'MS_Description', N'Allows faster OLTP reference for
```

```
figuring out price and inventory.', 'SCHEMA', N'inv', 'TABLE', N'Supplies', 'COLUMN',
N'ActiveDate'
GO
EXEC sp_addextendedproperty N'MS_Description', N'Allows faster OLTP reference for
figuring out price and inventory.', 'SCHEMA', N'inv', 'TABLE', N'Supplies', 'COLUMN',
N'InactiveDate'
GO
EXEC sp_addextendedproperty N'MS_Description', N'1 = Discontinued, 0 = Continued.',
'SCHEMA', N'inv', 'TABLE', N'Supplies', 'COLUMN', N'Quantity'
GO
```

Uses

[app].[Vendors]
[dim].[Date]

Used By

[app].[Purchases]

⊞ [inv].[Toys]

MS_Description

Inventory table for toys.

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	0
Created	9:24:43 AM Saturday, February 10, 2018
Last Modified	11:31:42 AM Sunday, February 11, 2018
System Versioned	True
Remote Data Archive	Disabled
History Table	[arc].[Toys]
History Table Row Count (~)	2000
History Table Created	9:24:43 AM Saturday, February 10, 2018
History Table Last Modified	6:47:55 PM Saturday, February 10, 2018

Columns

Key	Name	Data Type	Max Length (Bytes)	Allow Nulls	Identity
PK C	Toys_ID	bigint	8	False	1 - 1
FK	Ven_ID	bigint	8	False	
	Toys_Name	varchar(255)	255	True	
	Price	money	8	True	
	Quantity	int	4	True	
	Discontinued *1 = Discontinued, 0 = Continued.*	bit	1	True	
FK	ActiveDate *Allows faster OLTP reference for figuring out price and inventory.*	int	4	True	
FK	InactiveDate *Allows faster OLTP reference for figuring out price and inventory.*	int	4	True	
	ValidFrom	datetime2(2)	6	False	
	ValidTo	datetime2(2)	6	False	

Indexes

Key	Name	Key Columns	Unique
PK C	PK__Toys__ID	Toys_ID	True

Foreign Keys

Name	Columns
FK_Toys_ActiveDate	ActiveDate->[dim].[Date].[Date_ID]
FK_Toys_InactiveDate	InactiveDate->[dim].[Date].[Date_ID]
FK_Toys_Ven	Ven_ID->[app].[Vendors].[Ven_ID]

SQL Script

```
CREATE TABLE [inv].[Toys]
(
[Toys_ID] [bigint] NOT NULL IDENTITY(1, 1),
[Ven_ID] [bigint] NOT NULL,
[Toys_Name] [varchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Price] [money] NULL,
[Quantity] [int] NULL,
[Discontinued] [bit] NULL,
[ActiveDate] [int] NULL,
[InactiveDate] [int] NULL,
[ValidFrom] [datetime2] (2) GENERATED ALWAYS AS ROW START NOT NULL,
[ValidTo] [datetime2] (2) GENERATED ALWAYS AS ROW END NOT NULL,
PERIOD FOR SYSTEM_TIME (ValidFrom, ValidTo),
CONSTRAINT [PK__Toys__ID] PRIMARY KEY CLUSTERED  ([Toys_ID]) ON [PRIMARY]
) ON [PRIMARY]
WITH
(
SYSTEM_VERSIONING = ON (HISTORY_TABLE = [arc].[Toys])
)
GO
ALTER TABLE [inv].[Toys] ADD CONSTRAINT [FK_Toys_ActiveDate] FOREIGN KEY ([ActiveDate])
REFERENCES [dim].[Date] ([Date_ID])
GO
ALTER TABLE [inv].[Toys] ADD CONSTRAINT [FK_Toys_InactiveDate] FOREIGN KEY ([Inactive-
Date]) REFERENCES [dim].[Date] ([Date_ID])
GO
ALTER TABLE [inv].[Toys] ADD CONSTRAINT [FK_Toys_Ven] FOREIGN KEY ([Ven_ID]) REFERENCES
[app].[Vendors] ([Ven_ID])
GO
EXEC sp_addextendedproperty N'MS_Description', N'Inventory table for toys.', 'SCHEMA',
N'inv', 'TABLE', N'Toys', NULL, NULL
GO
EXEC sp_addextendedproperty N'MS_Description', N'Allows faster OLTP reference for
```

```
figuring out price and inventory.', 'SCHEMA', N'inv', 'TABLE', N'Toys', 'COLUMN',
N'ActiveDate'
GO
EXEC sp_addextendedproperty N'MS_Description', N'1 = Discontinued, 0 = Continued.',
'SCHEMA', N'inv', 'TABLE', N'Toys', 'COLUMN', N'Discontinued'
GO
EXEC sp_addextendedproperty N'MS_Description', N'Allows faster OLTP reference for
figuring out price and inventory.', 'SCHEMA', N'inv', 'TABLE', N'Toys', 'COLUMN',
N'InactiveDate'
GO
```

Uses

[app].[Vendors]
[dim].[Date]

Used By

[app].[Purchases]

📊 *Table-valued Functions*

Objects

Name
dbo.GetEasterHolidays *Returns Easter Holidays.*

▦ [dbo].[GetEasterHolidays]

MS_Description

Returns Easter Holidays.

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True
Schema Bound	True

Parameters

Name	Data Type	Max Length (Bytes)
@year	int	4

SQL Script

```sql
CREATE FUNCTION [dbo].[GetEasterHolidays](@year INT)
RETURNS TABLE
WITH SCHEMABINDING
AS
RETURN
(
  WITH x AS
  (
    SELECT [Date] = CONVERT(DATE, RTRIM(@year) + '0' + RTRIM([Month])
        + RIGHT('0' + RTRIM([Day]),2))
      FROM (SELECT [Month], [Day] = DaysToSunday + 28 - (31 * ([Month] / 4))
      FROM (SELECT [Month] = 3 + (DaysToSunday + 40) / 44, DaysToSunday
      FROM (SELECT DaysToSunday = paschal - ((@year + @year / 4 + paschal - 13) % 7)
      FROM (SELECT paschal = epact - (epact / 28)
      FROM (SELECT epact = (24 + 19 * (@year % 19)) % 30)
        AS epact) AS paschal) AS dts) AS m) AS d
  )
  SELECT [Date], HolidayName = 'Easter Sunday' FROM x
    UNION ALL SELECT DATEADD(DAY,-2,[Date]), 'Good Friday'   FROM x
    UNION ALL SELECT DATEADD(DAY, 1,[Date]), 'Easter Monday' FROM x
);
GO
EXEC sp_addextendedproperty N'MS_Description', N'Returns Easter Holidays.', 'SCHEMA',
N'dbo', 'FUNCTION', N'GetEasterHolidays', NULL, NULL
GO
```

👤 *Users*

Objects

Name
PetsDumb_Admin

👤 PetsDumb_Admin

Properties

Property	Value
Type	SqlUser
Login Name	PetsDumb_Admin
Default Schema	dbo

Database Level Permissions

Type	Action
CONNECT	Grant

SQL Script

```sql
IF NOT EXISTS (SELECT * FROM master.dbo.syslogins WHERE loginname = N'PetsDumb_Admin')
CREATE LOGIN [PetsDumb_Admin] WITH PASSWORD = 'p@ssw0rd'
GO
CREATE USER [PetsDumb_Admin] FOR LOGIN [PetsDumb_Admin]
GO
```

⋏ *Schemas*

Objects

Name
app
arc
dim
inv

⋀ app

Properties

Property	Value
Owner	PetsDumb_Admin

SQL Script

```
CREATE SCHEMA [app]
AUTHORIZATION [PetsDumb_Admin]
GO
```

⋀ arc

Properties

Property	Value
Owner	PetsDumb_Admin

SQL Script

```sql
CREATE SCHEMA [arc]
AUTHORIZATION [PetsDumb_Admin]
GO
```

⋀ dim

Properties

Property	Value
Owner	PetsDumb_Admin

SQL Script

```sql
CREATE SCHEMA [dim]
AUTHORIZATION [PetsDumb_Admin]
GO
```

⅄ inv

Properties

Property	Value
Owner	PetsDumb_Admin

SQL Script

```sql
CREATE SCHEMA [inv]
AUTHORIZATION [PetsDumb_Admin]
GO
```