

## Ecobadge database code

```
create schema ecobadge;

create table [ecobadge].[Company](
    CompanyID INT,
    CompanyName VARCHAR (255) NOT NULL,
    Address VARCHAR (255) NOT NULL,
    Postcode VARCHAR (255) NOT NULL,
    CompanyEmail VARCHAR (255) NOT NULL,
    WebsiteLink VARCHAR (255),
    Cuisine VARCHAR (255) NOT NULL,
    EcobadgeScore INT,
    EcobadgeTier VARCHAR (100) NOT NULL,
    CompanyPassword VARCHAR (255) NOT NULL,
    Constraint PK_CompPK PRIMARY KEY (CompanyID)
);

create table [ecobadge].[Must-Haves](
    CompanyID INT,
    SuppliesVeganDishes BIT,
    DoesNotUseSingleUsePlastic BIT,
    UsesFoodWasteCollection BIT,
    UsesLocalProduceWithin100Miles BIT
    CONSTRAINT FK_CompFK FOREIGN KEY (CompanyID)
    REFERENCES [ecobadge].[Company](CompanyID)
);

create table [ecobadge].[Customer](
    CustomerID INT,
    CustomerName VARCHAR (255),
    CustomerEmail VARCHAR (255),
    CustomerPassword VARCHAR (255),
);
```

### Company Data

```
insert into [ecobadge].[Company](CompanyID, CompanyName, Address, Postcode, CompanyEmail,
WebsiteLink, Cuisine, EcobadgeScore, EcobadgeTier, CompanyPassword)
VALUES(00001,'Js Sandwich Shop','90 Clifton Pl, Mutley, Plymouth','PL4 8HU',
'info@jssandwhichshop.co.uk','jssandwhichshop.co.uk','Sandwiches',80,'Gold','_G00dSandw1ches')

insert into [ecobadge].[Company](CompanyID, CompanyName, Address, Postcode, CompanyEmail,
WebsiteLink, Cuisine, EcobadgeScore, EcobadgeTier, CompanyPassword)
VALUES(00002,'Vegan Kitchen','Palace Street, Plymouth', 'PL1 2AY', 'hello@vegankitchen.co.uk',
'vegankitchen.co.uk', 'Mediterranean, Vegan', 95, 'Platinum', 'V39an_F00d')

insert into [ecobadge].[Company](CompanyID, CompanyName, Address, Postcode, CompanyEmail,
WebsiteLink, Cuisine, EcobadgeScore, EcobadgeTier, CompanyPassword)
VALUES(00003, 'Churchill Inn', 'Sutton Harbour', 'PL4 0DN', 'Info@churchillinn.co.uk',
'churchillinn.co.uk', 'Pub Food',85,'Gold', '0ld_Bulld0g45')

insert into [ecobadge].[Company](CompanyID, CompanyName, Address, Postcode, CompanyEmail,
WebsiteLink, Cuisine, EcobadgeScore, EcobadgeTier, CompanyPassword)
```

```
VALUES(00004, 'McDouglas', 'Edward St, Plymouth', 'PL1 1QZ', 'hello@mcDouglas.com',
'mcdouglas.com', 'Fast Food', 75, 'Gold', '$McD0ugl4s!')
```

```
insert into [ecobadge].[Company](CompanyID, CompanyName, Address, Postcode, CompanyEmail,
WebsiteLink, Cuisine, EcobadgeScore, EcobadgeTier, CompanyPassword)
VALUES(00005, 'Pizza Palace', 'Barbican Leisure Park', 'PL4 0AA', 'info@pizzapalace.co.uk',
'pizzapalace.co.uk', 'Pizza, Pasta',65,'Silver', '^P1zz4_T1m3')
```

```
insert into [ecobadge].[Company](CompanyID, CompanyName, Address, Postcode, CompanyEmail,
WebsiteLink, Cuisine, EcobadgeScore, EcobadgeTier, CompanyPassword)
VALUES(00006, 'Johns Pasta', '1, First Street', 'PL9 0LP', 'Info@johnspasta.co.uk',
'johnspasta.co.uk', 'Pasta, Italian', 55, 'Silver', 'T0rtell1n1!')
```

```
insert into [ecobadge].[Company](CompanyID, CompanyName, Address, Postcode, CompanyEmail,
WebsiteLink, Cuisine, EcobadgeScore, EcobadgeTier, CompanyPassword)
VALUES(00007, 'Luigis Pizza', '10, Main Street', 'PL2 4RN', 'help@luigispizza.co.uk',
'luigispizza.co.uk', 'Pizza, Italian',78,'Gold', '$Nap0li')
```

```
insert into [ecobadge].[Company](CompanyID, CompanyName, Address, Postcode, CompanyEmail,
WebsiteLink, Cuisine, EcobadgeScore, EcobadgeTier, CompanyPassword)
VALUES(00008, 'Best Kebaby', '90 Regent Street', 'PL3 9XZ', 'contact@bestkebaby.co.uk',
'bestkebaby.co.uk', 'Kebab, Fast Food, Turkish', 30, 'Bronze', '1stanbul92&')
```

```
insert into [ecobadge].[Company](CompanyID, CompanyName, Address, Postcode, CompanyEmail,
WebsiteLink, Cuisine, EcobadgeScore, EcobadgeTier, CompanyPassword)
VALUES(00009, 'Lucky Wok', 'Hornbeam Close', 'PL8 1XX', 'shop@luckywok.co.uk',
'luckywok.co.uk', 'Chinese, Cantonese',35,'Bronze', '!cAnT0n')
```

```
insert into [ecobadge].[Company](CompanyID, CompanyName, Address, Postcode, CompanyEmail,
WebsiteLink, Cuisine, EcobadgeScore, EcobadgeTier, CompanyPassword)
VALUES(00010, 'NinetyOne', 'Kimberley Road', 'PL6 8AN', 'hello@ninetyone.com',
'ninetyone.com', 'Japanese',72,'Silver', '&Mm0ch1')
```

```
insert into [ecobadge].[Company](CompanyID, CompanyName, Address, Postcode, CompanyEmail,
WebsiteLink, Cuisine, EcobadgeScore, EcobadgeTier, CompanyPassword)
VALUES(00011, 'Marracas', 'Albert Street', 'PL7 1QU', 'info@marracas.co.uk', 'marracas.co.uk',
'Mexican', 46, 'Silver', '%EnCh1ladas6')
```

```
insert into [ecobadge].[Company](CompanyID, CompanyName, Address, Postcode, CompanyEmail,
WebsiteLink, Cuisine, EcobadgeScore, EcobadgeTier, CompanyPassword)
VALUES(00012, 'Marcos', 'Heath Close', 'PL2 7PQ', 'book@marcos.co.uk',
'marcos.co.uk', 'Fine Dining',80,'Gold', '$P1n0t_Gr1gIo4')
```

CompanyID	CompanyName	Address	Postcode	CompanyEmail	WebsiteLink	Cuisine	EcobadgeScore	EcobadgeTier	CompanyPassword	MenuImage	CompPFP	Tel
1	Js Sandwich S...	90 Clifton Pl...	PL4 8HU	info@jssandwhi...	jssandwichsho...	Sandwiches	80	Gold	_000dsandwiches	NULL	NULL	NULL
2	Vegan Kitchen	Palace Street...	PL1 2AY	hello@vegankit...	vegankitchen.c...	Mediterranean, ...	95	Platinum	V399n_F00D	NULL	NULL	NULL
3	Churchill Inn	sutton Harbour	PL4 8DN	Info@churchill...	churchillinn.c...	Pub Food	85	Gold	01d_Bulld0g45	NULL	NULL	NULL
4	McDouglas	Edward St, Ply...	PL1 1QZ	hello@mcdougl...	mcdouglas.com	Fast Food	75	Gold	\$McD0ugl4s!	NULL	NULL	NULL
5	Pizza Palace	Barbican Leisu...	PL4 0AA	info@pizzapala...	pizzapalace.co...	Pizza, Pasta	65	Silver	^P1zz4_T1m3	NULL	NULL	NULL
6	Johns Pasta	1, First Street	PL9 0LP	Info@johnspast...	johnspasta.co...	Pasta, Italian	55	Silver	T0rtell1n1!	NULL	NULL	NULL
7	Luigis Pizza	10, Main Street	PL2 4RN	help@luigispiz...	luigispizza.co...	Pizza, Italian	78	Gold	\$Nap0li	NULL	NULL	NULL
8	Best Kebaby	90 Regent Stre...	PL3 9XZ	contact@bestke...	bestkebaby.co...	Kebab, Fast Fo...	30	Bronze	1stanbul92&	NULL	NULL	NULL
9	Lucky Wok	Hornbeam Close	PL8 1XX	shop@luckywok...	luckywok.co.uk	Chinese, Canto...	35	Bronze	!cAnT0n	NULL	NULL	NULL
10	Ninetyone	Kimberley Road	PL6 8AN	hello@ninetyon...	ninetyone.com	Japanese	72	Silver	&Mm0ch1	NULL	NULL	NULL
11	Marracas	Albert Street	PL7 1QU	info@marracas...	marracas.co.uk	Mexica	46	Silver	%EnCh1ladas6	NULL	NULL	NULL
12	Marcos	Heath Close	PL2 7PQ	book@marcos.co...	marcos.co.uk	Fine Dining	80	Gold	\$P1n0t_Gr1gIo4	NULL	NULL	NULL
1-	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

## Must-Haves data

```
insert into [ecobadge].[Must-
Haves](CompanyID, SuppliesVeganDishes, DoesNotUseSingleUsePlastic,
```

```
UsesFoodWasteCollection,UsesLocalProduceWithin100Miles)
VALUES(00001, 1, 1,0,1)
```

```
insert into [ecobadge].[Must-
Haves](CompanyID, SuppliesVeganDishes, DoesNotUseSingleUsePlastic,
UsesFoodWasteCollection,UsesLocalProduceWithin100Miles)
VALUES(00002, 1, 1,1,1)
```

```
insert into [ecobadge].[Must-
Haves](CompanyID, SuppliesVeganDishes, DoesNotUseSingleUsePlastic,
UsesFoodWasteCollection,UsesLocalProduceWithin100Miles)
VALUES(00003, 1, 1,0,1)
```

```
insert into [ecobadge].[Must-
Haves](CompanyID, SuppliesVeganDishes, DoesNotUseSingleUsePlastic,
UsesFoodWasteCollection,UsesLocalProduceWithin100Miles)
VALUES(00004, 0, 0,0,0)
```

```
insert into [ecobadge].[Must-
Haves](CompanyID, SuppliesVeganDishes, DoesNotUseSingleUsePlastic,
UsesFoodWasteCollection,UsesLocalProduceWithin100Miles)
VALUES(00005, 1, 0,0,0)
```

```
insert into [ecobadge].[Must-
Haves](CompanyID, SuppliesVeganDishes, DoesNotUseSingleUsePlastic,
UsesFoodWasteCollection,UsesLocalProduceWithin100Miles)
VALUES(00006, 0, 1,0,0)
```

```
insert into [ecobadge].[Must-
Haves](CompanyID, SuppliesVeganDishes, DoesNotUseSingleUsePlastic,
UsesFoodWasteCollection,UsesLocalProduceWithin100Miles)
VALUES(00007, 1, 1,0,1)
```

```
insert into [ecobadge].[Must-
Haves](CompanyID, SuppliesVeganDishes, DoesNotUseSingleUsePlastic,
UsesFoodWasteCollection,UsesLocalProduceWithin100Miles)
VALUES(00008, 0, 0,0,0)
```

```
insert into [ecobadge].[Must-
Haves](CompanyID, SuppliesVeganDishes, DoesNotUseSingleUsePlastic,
UsesFoodWasteCollection,UsesLocalProduceWithin100Miles)
VALUES(00009, 0, 0,0,0)
```

```
insert into [ecobadge].[Must-
Haves](CompanyID, SuppliesVeganDishes, DoesNotUseSingleUsePlastic,
UsesFoodWasteCollection,UsesLocalProduceWithin100Miles)
VALUES(00010, 1, 1,0,1)
```

```
insert into [ecobadge].[Must-
Haves](CompanyID, SuppliesVeganDishes, DoesNotUseSingleUsePlastic,
UsesFoodWasteCollection,UsesLocalProduceWithin100Miles)
VALUES(00011, 1, 0,0,0)
```

```
insert into [ecobadge].[Must-
Haves](CompanyID, SuppliesVeganDishes, DoesNotUseSingleUsePlastic,
UsesFoodWasteCollection,UsesLocalProduceWithin100Miles)
VALUES(00012, 1, 1,0,0)
```

	CompanyID	SuppliesVeganDishes	DoesNotUseSingleUsePlastic	UsesFoodWasteCollection	UsesLocalProduceWithin100Miles
1	1	1	1	0	1
2	2	1	1	1	1
3	3	1	1	0	1
4	4	0	0	0	0
5	5	1	0	0	0
6	6	0	1	0	0
7	7	1	1	0	1
8	8	0	0	0	0
9	9	0	0	0	0
1...	10	1	1	0	1
1...	11	1	0	0	0
1...	12	1	1	0	0

## Customer Data

```
insert into [ecobadge].[Customer](CustomerID, CustomerName, CustomerEmail,
CustomerPassword)
```

```
VALUES(111111, 'John Smith', 'JohnSmith@gmail.co.uk', '$p4ssW0rd*')
```

```
insert into [ecobadge].[Customer](CustomerID, CustomerName, CustomerEmail,
CustomerPassword)
```

```
VALUES(111112, 'David Walsh', 'Dwalsg@yahoo.com', '!Chelsea89')
```

```
insert into [ecobadge].[Customer](CustomerID, CustomerName, CustomerEmail,
CustomerPassword)
```

```
VALUES(111113, 'Mary Dickinson', 'MaryJDickinson@gmail.com', 'cUstardCr34ms%')
```

```
insert into [ecobadge].[Customer](CustomerID, CustomerName, CustomerEmail,
CustomerPassword)
```

```
VALUES(111114, 'Lucy Clarke', 'LClarke@outlook.co.uk', 'p0rridge_Oats75')
```

```
insert into [ecobadge].[Customer](CustomerID, CustomerName, CustomerEmail,
CustomerPassword)
```

```
VALUES(111115, 'Daisy Oaks', 'Doaks@gmail.com', '&TuscanVilla&')
```

```
insert into [ecobadge].[Customer](CustomerID, CustomerName, CustomerEmail,
CustomerPassword)
```

```
VALUES(111116, 'Peter Morgan', 'PeterAMorgan@outlook.co.uk', '11v3rp001fF')
```

	CustomerID	CustomerName	CustomerEmail	CustomerPassword	CusPFP
1	111111	John Smith	JohnSmith@gmail.co.uk	\$p4ssW0rd*	NULL
2	111112	David Walsh	Dwalsg@yahoo.com	!Chelsea89	NULL
3	111113	Mary Dickinson	MaryJDickinson@gmail.com	cUstardCr34ms%	NULL
4	111114	Lucy Clarke	LClarke@outlook.co.uk	p0rridge_Oats75	NULL
5	111115	Daisy Oaks	Doaks@gmail.com	&TuscanVilla&	NULL
6	111116	Peter Morgan	PeterAMorgan@outlook.co.uk	11v3rp001fF	NULL

## Table Alterations Data

```
Alter TABLE [ecobadge].[Company]
```

```
ADD MenuImage VARBINARY(MAX),
```

```
CompPFP VARBINARY(MAX)
```

```
Alter TABLE [ecobadge].[Customer]
ADD CusPFP VARBINARY(MAX)
```

## View

Create VIEW Directory AS

```
SELECT CompanyName, Cuisine, Postcode, EcobadgeScore, EcobadgeTier,
SuppliesVeganDishes, DoesNotUseSingleUsePlastic, UsesFoodWasteCollection,
UsesLocalProduceWithin100Miles
FROM [ecobadge].[Company], [ecobadge].[Must-Haves]
```

	CompanyName	Cuisine	Postcode	EcobadgeScore	EcobadgeTier	SuppliesVeganDishes	DoesNotUseSingleUsePlastic	UsesFoodWasteCollection	UsesLocalProduceWithin100Miles
1	Js Sandwich Shop	Sandwiches	PL4 8HU	80	Gold	1	1	0	1
2	Vegan Kitchen	Mediterranean, Vegan	PL1 2AY	95	Platinum	1	1	0	1
3	Churchill Inn	Pub Food	PL4 8DN	85	Gold	1	1	0	1
4	McDouglas	Fast Food	PL1 1QZ	75	Gold	1	1	0	1
5	Pizza Palace	Pizza, Pasta	PL4 0AA	65	Silver	1	1	0	1
6	Johns Pasta	Pasta, Italian	PL9 0LP	55	Silver	1	1	0	1
7	Luigis Pizza	Pizza, Italian	PL2 4RN	78	Gold	1	1	0	1
8	Best Kebaby	Kebab, Fast Food, Turkish	PL3 9XZ	30	Bronze	1	1	0	1
9	Lucky Wok	Chinese, Cantonese	PL8 1XX	35	Bronze	1	1	0	1
1..	NinetyOne	Japanese	PL6 8AN	72	Silver	1	1	0	1
1..	Marracas	Mexico	PL7 1QU	46	Silver	1	1	0	1
1..	Marcos	Fine Dining	PL2 7PQ	80	Gold	1	1	0	1
1..	Js Sandwich Shop	Sandwiches	PL4 8HU	80	Gold	1	1	1	1
1..	Vegan Kitchen	Mediterranean, Vegan	PL1 2AY	95	Platinum	1	1	1	1
1..	Churchill Inn	Pub Food	PL4 8DN	85	Gold	1	1	1	1
1..	McDouglas	Fast Food	PL1 1QZ	75	Gold	1	1	1	1
1..	Pizza Palace	Pizza, Pasta	PL4 0AA	65	Silver	1	1	1	1
1..	Johns Pasta	Pasta, Italian	PL9 0LP	55	Silver	1	1	1	1
1..	Luigis Pizza	Pizza, Italian	PL2 4RN	78	Gold	1	1	1	1
2..	Best Kebaby	Kebab, Fast Food, Turkish	PL3 9XZ	30	Bronze	1	1	1	1
2..	Lucky Wok	Chinese, Cantonese	PL8 1XX	35	Bronze	1	1	1	1
2..	NinetyOne	Japanese	PL6 8AN	72	Silver	1	1	1	1
2..	Marracas	Mexico	PL7 1QU	46	Silver	1	1	1	1

## Encryption

```
CREATE MASTER KEY ENCRYPTION BY PASSWORD = 'Eco_badge@1';
```

```
SELECT name KeyName,
       symmetric_key_id KeyID,
       key_length KeyLength,
       algorithm_desc KeyAlgorithm
FROM sys.symmetric_keys;
```

```
CREATE CERTIFICATE Certificate_test WITH SUBJECT = 'Protected data';
GO
```

```
SELECT name CertName,
       certificate_id CertID,
       pvt_key_encryption_type_desc EncryptType,
       issuer_name Issuer
FROM sys.certificates;
```

```
CREATE SYMMETRIC KEY SymKey_test WITH ALGORITHM = AES_256 ENCRYPTION BY CERTIFICATE Certificate_test;
```

## Database Mk2