



Wardrobe DB

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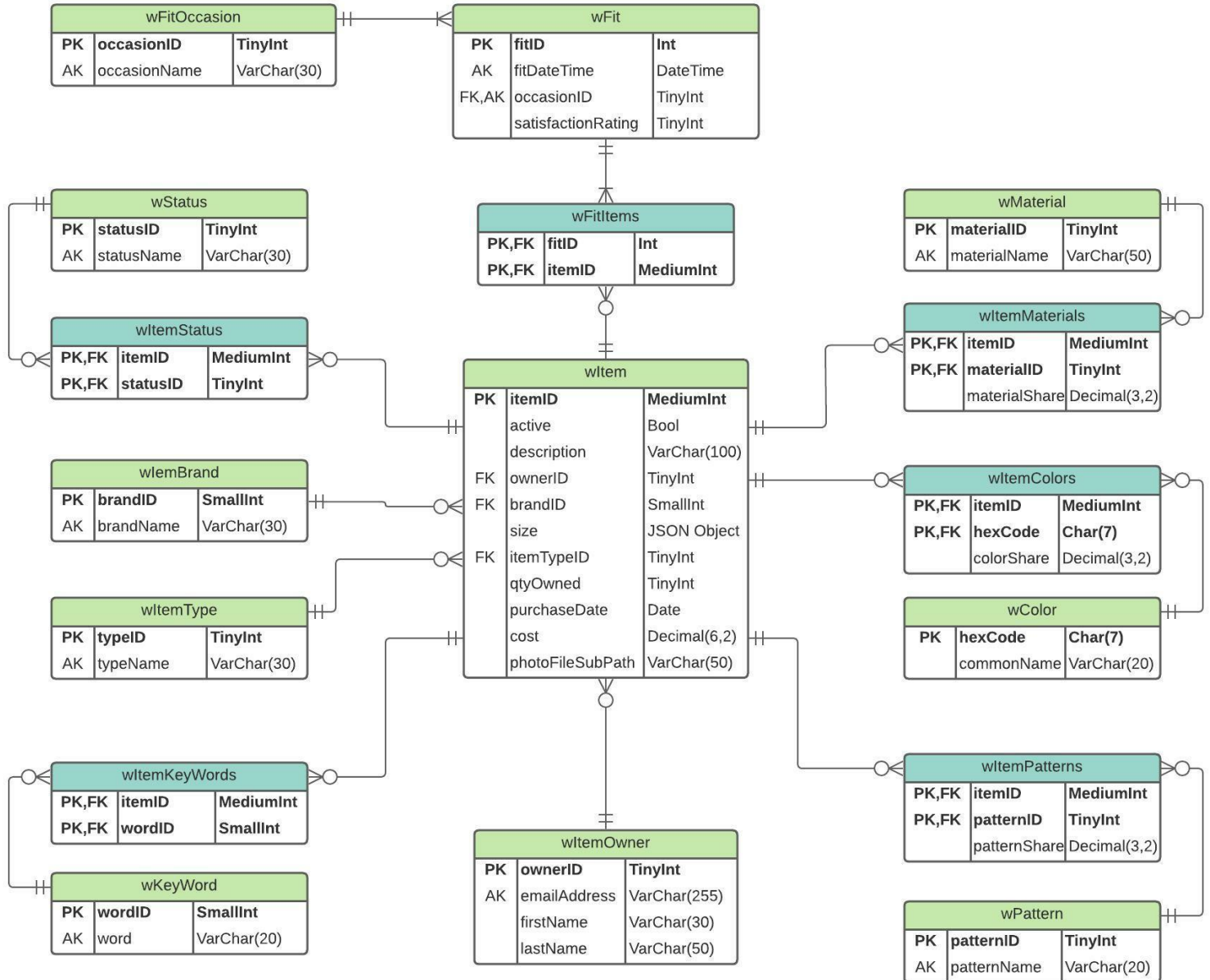
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Wardrobe DB Entity Relationship Diagram





Database Tables

Documentation WardrobeData

Description Table featuring the core outfit records.

Columns

Key	Name	Data Type	Null	Attributes	Description
Primary	fitID	Int		Identity	Primary key for “Fit” records
Alternate	fitDateTime	DateTime			Date and time wearing the outfit
Alternate, Foreign	occasionID	TinyInt			Foreign key to the “fitOccasion” records
	satisfactionRating	TinyInt	Yes	Allowable values: 1-4	A rating of one’s satisfaction with the outfit where 1=very unsatisfied and 4=very satisfied

Relations

Foreign Table	Primary Table	Join
wFitOccasion	wFit	wFit.occasionID = wFitOccasion .occasionID
wFitItems	wFit	wFit.fitID = wFitItems .fitID

Unique Keys

Key Name	Columns	Description
PK_Fit_FitId	fitID	Primary key constraint
FK_Fit_OccasionId	occasionID	Foreign key constraint
AK_Fit_FitDateTime_OccasionId	fitDateTime, occasionID	Unique index constraint

wFitOccasion

Documentation WardrobeData

Description Lookup table containing occasions for which one may design an outfit.

Columns

Key	Name	Data Type	Null	Attributes	Description
Primary	occasionID	TinyInt		Identity	Primary key for "FitOccasion" records
Alternate	occasionName	VarChar(30)			Occasions for which one may design an outfit

Relations

Foreign Table	Primary Table	Join
wFit	wFitOccasion	wFitOccasion.occasionID = wFit .occasionID

Unique Keys

Key Name	Columns	Description
PK_FitOccasion_OccasionId	occasionID	Primary key constraint
AK_FitOccasion_OccasionName	occasionName	Unique index constraint

wFitItems

Documentation WardrobeData

Description Table featuring associated fit and clothing item records.

Columns

Key	Name	Data Type	Null	Attributes	Description
Primary, Foreign	fitID	Int		Identity	Primary key for “FitItems” records and foreign key for “Fit” records
Primary, Foreign	itemID	MediumInt		Identity	Primary key for “FitItems” records and foreign key for “Item” records

Relations

Foreign Table	Primary Table	Join
wFit	wFitItems	wFitItems.fitID = wFit .fitID
wItem	wFitItems	wFitItems.itemID = wItem .itemID

Unique Keys

Key Name	Columns	Description
PK_FitItems_ItemId_FitId	itemID, fitID	Primary key constraint
FK_FitItems_ItemId	itemID	Unique index constraint
FK_FitItems_FitId	fitID	Unique index constraint

Documentation

WardrobeData

Description

Table containing clothing item records and associated attributes.

Columns

Key	Name	Data Type	Null	Attributes	Description
Primary, Foreign	itemID	MediumInt		Identity Increment = 101	Primary key for "FitItems" records and foreign key for "Fit" records
	active	Bool		Default = TRUE	A flag for determining current ownership. "Active"= still own, "Inactive"= no longer in wardrobe.
	description	VarChar(100)			Short description of the clothing item
Foreign	ownerID	TinyInt			
Foreign	brandID	SmallInt			
	size	JSON Object	Yes		Sizing requirements vary by clothing item so the JSON Object will store the various sizing values
Foreign	itemTypeID	TinyInt			Clothing items fall into different types (categories)
	qtyOwned	TinyInt		Default = 1	Units owned of a particular unique clothing item
	purchaseDate	Date	Yes		Date of purchase (or receipt)
	cost	Decimal(6,2)	Yes		Cost of the clothing item were it to be replaced at the time of purchase or receipt
	photoFileSubPath	VarChar(50)	Yes		Sub file pathway to photo from main directory

Relations

Foreign Table	Primary Table	Join
wItemOwner	wItem	wItem.ownerID = wOwner .ownerID
wItemBrand	wItem	wItem.brandID = wItemBrand .brandID
wItemType	wItem	wItem.itemTypeID = wItemType .typeID
wItemMaterials	wItem	wItem.itemID = wItemMaterials .itemID
wItemColors	wItem	wItem.itemID = wItemColors .itemID
wItemPatterns	wItem	wItem.itemID = wItemPatterns .itemID
wItemKeyWords	wItem	wItem.itemID = wItemKeyWords .itemID

Unique Keys

Key Name	Columns	Description
PK_Item_ItemID	itemID	Primary key constraint
FK_Item_OwnerID	ownerID	Foreign key constraint
FK_Item_BrandID	brandID	Foreign key constraint
FK_Item_ItemTypeID	itemTypeID	Foreign key constraint

wItemOwner

Documentation WardrobeData

Description A lookup table for clothing “Item Owner” records.

Columns

Key	Name	Data Type	Null	Attributes	Description
Primary	ownerID	TinyInt		Identity	Primary key for “Item Owner” records.
Alternate	emailAddress	VarChar(255)		Must be valid email with “@” and “.”	Owner (user) email address
	firstName	VarChar(30)			Owner (user) first name
	lastName	VarChar(50)			Owner (user) last name

Relations

Foreign Table	Primary Table	Join
wItem	wItemOwner	wItemOwner.ownerID = wItem .ownerID

Unique Keys

Key Name	Columns	Description
PK_ItemOwner_OwnerId	brandID	Primary key constraint
AK_ItemOwner_EmailAddress	emailAddress	Unique index constraint

wStatus

Documentation WardrobeData

Description A lookup table for clothing “Status” records.

Columns

Key	Name	Data Type	Null	Attributes	Description
Primary	statusID	TinyInt		Identity	Primary key for “Status” records.
Alternate	statusName	VarChar(30)			A status name for a clothing item determining its current state.

Relations

Foreign Table	Primary Table	Join
wItemStatus	wStatus	wItemStatus.statusID = wStatus .statusID

Unique Keys

Key Name	Columns	Description
PK_Status_StatusId	statusID	Primary key constraint
AK_Status_StatusName	statusName	Unique index constraint

wItemStatus

Documentation WardrobeData

Description Table containing associated Item and Status records.

Columns

Key	Name	Data Type	Null	Attributes	Description
Primary, Foreign	itemID	MediumInt		Identity	Primary key for "Item Status" records and foreign key for "Item" records.
Primary, Foreign	statusID	TinyInt		Identity	Primary key for "Item Status" records and foreign key for "Status" records.

Relations

Foreign Table	Primary Table	Join
wItem	wItemStatus	wItemStatus.itemID = wItem .itemID
wStatus	wItemStatus	wItemStatus.statusID = wStatus .statusID

Unique Keys

Key Name	Columns	Description
PK_ItemStatus_ItemId_StatusId	itemID, statusID	Primary key constraint
FK_ItemStatus_ItemId	itemID	Foreign key constraint
FK_ItemStatus_StatusId	statusID	Foreign key constraint

wItemBrand

Documentation WardrobeData

Description A lookup table for clothing “Item Brand” records.

Columns

Key	Name	Data Type	Null	Attributes	Description
Primary	brandID	SmallInt		Identity	Primary key for “Item Brand” records.
Alternate	brandName	VarChar(30)			A brand of a clothing item.

Relations

Foreign Table	Primary Table	Join
wItem	wItemBrand	wItemBrand.brandID = wItem .brandID

Unique Keys

Key Name	Columns	Description
PK_ItemBrand_BrandId	brandID	Primary key constraint
AK_ItemBrand_BrandName	brandName	Unique index constraint

wItemtype

Documentation WardrobeData

Description A lookup table for clothing “Item Type” records.

Columns

Key	Name	Data Type	Null	Attributes	Description
Primary	typeID	TinyInt		Identity	Primary key for “Item Type” records.
Alternate	typeName	VarChar(30)			A type (category) of a clothing item.

Relations

Foreign Table	Primary Table	Join
wItem	wItemType	wItemType.typeID = wItem .typeID

Unique Keys

Key Name	Columns	Description
PK_ItemType_TypeID	typeID	Primary key constraint
AK_ItemType_TypeName	typeName	Unique index constraint

wKeyWord

Documentation WardrobeData

Description Table containing clothing KeyWord records.

Columns

Key	Name	Data Type	Null	Attributes	Description
Primary	wordID	SmallInt		Identity	Primary key for “KeyWord” records.
Alternate	Word	VarChar(20)			Common word or short phrase classifying a clothing item.

Relations

Foreign Table	Primary Table	Join
wItemKeyWords	wKeyWord	wKeyWord.wordID = wItemKeyWords.wordID

Unique Keys

Key Name	Columns	Description
PK_KeyWord_WordId	wordID	Primary key constraint
AK_KeyWord_Word	Word	Unique index constraint

wItemKeyWords

Documentation WardrobeData

Description Table containing associated Item and KeyWord records.

Columns

Key	Name	Data Type	Null	Attributes	Description
Primary, Foreign	itemID	MediumInt		Identity	Primary key for "Item KeyWords" records and foreign key for "Item" records.
Primary, Foreign	wordID	SmallInt		Identity	Primary key for "Item KeyWords" records and foreign key for "KeyWords" records.

Relations

Foreign Table	Primary Table	Join
wItem	wItemKeyWords	wItemKeyWords.itemID = wItem .itemID
wKeyword	wItemKeyWords	wItemKeyWords.wordID = wKeyword .wordID

Unique Keys

Key Name	Columns	Description
PK_ItemKeyWords_ItemId_WordId	itemID, wordID	Primary key constraint
FK_ItemKeyWords_ItemId	itemID	Foreign key constraint
FK_ItemKeyWords_WordId	wordID	Foreign key constraint

wMaterial

Documentation WardrobeData

Description Table containing clothing Material records.

Columns

Key	Name	Data Type	Null	Attributes	Description
Primary	materialID	TinyInt		Identity	Primary key for “Material” records
Alternate	materialName	VarChar(50)			Material name to be used for clothing Item records

Relations

Foreign Table	Primary Table	Join
wItemMaterials	wMaterial	wMaterial.materialID = wItemMaterials.materialID

Unique Keys

Key Name	Columns	Description
PK_Material_MaterialId	materialID	Primary key constraint
AK_Material_MaterialName	materialName	Unique index constraint

wItemMaterials

Documentation WardrobeData

Description Table containing associated Item and Material records.

Columns

Key	Name	Data Type	Null	Attributes	Description
Primary, Foreign	itemID	MediumInt		Identity	Primary key for “Item Materials” records and foreign key for “Item” records.
Primary, Foreign	materialID	TinyInt		Identity	Primary key for “Item Materials” records and foreign key for “Materials” records.
	materialShare	Decimal(3,2)		Total of “materialShare” must equal 1 (i.e. 100%)	A measure of how much a material is represented on the clothing item.

Relations

Foreign Table	Primary Table	Join
wItem	wItemMaterials	wItemMaterials.itemID = wItem .itemID
wMaterial	wItemMaterials	wItemMaterials.materialID = wMaterial .fitID

Unique Keys

Key Name	Columns	Description
PK_ItemMaterials_ItemId_MaterialId	itemID, materialID	Primary key constraint
FK_ItemMaterials_ItemId	itemID	Foreign key constraint
FK_ItemMaterials_MaterialId	materialID	Foreign key constraint

Documentation WardrobeData

Description Table containing clothing Color records.

Columns

Key	Name	Data Type	Null	Attributes	Description
Primary	hexCode	Char(7)		Identity Must be valid Hex Code with “#” and 7 total characters.	Primary key for “Color” records
	commonName	VarChar(20)			Common, generic name for a color

Relations

Foreign Table	Primary Table	Join
wItemColors	wColor	wColor.hexCode = wItemColors.hexCode

Unique Keys

Key Name	Columns	Description
PK_Color_HexCode	hexCode	Primary key constraint

wItemColors

Documentation WardrobeData

Description Table containing associated Item and Color records.

Columns

Key	Name	Data Type	Null	Attributes	Description
Primary, Foreign	itemID	MediumInt		Identity	Primary key for “Item Color” records and foreign key for “Item” records.
Primary, Foreign	hexCode	Char(7)		Identity	Primary key for “Item Color” records and foreign key for “Materials” records.
	colorShare	Decimal(3,2)		Total of “colorShare” per itemID must equal 1 (i.e. 100%)	An approximation of how much of a color is represented on the item of clothing.

Relations

Foreign Table	Primary Table	Join
wItem	wItemColors	wItemColors.itemID = wItem .itemID
wColor	wItemColors	wItemColors.hexCode = wColor .hexCode

Unique Keys

Key Name	Columns	Description
PK_ItemColors_ItemId_HexCode	itemID, hexCode	Primary key constraint
FK_ItemColors_ItemId	itemID	Foreign key constraint
FK_ItemColors_HexCode	hexCode	Foreign key constraint

wPattern

Documentation WardrobeData

Description Table containing clothing Pattern records.

Columns

Key	Name	Data Type	Null	Attributes	Description
Primary	patternID	TinyInt		Identity	Primary key for “Pattern” records.
Alternate	patternName	VarChar(20)			A common, generic name for a clothing pattern.

Relations

Foreign Table	Primary Table	Join
wItemPattern	wPattern	wPattern.patternID = wItemPatterns.patternID

Unique Keys

Key Name	Columns	Description
PK_Pattern_PatternId	patternID	Primary key constraint
AK_Pattern_PatternName	patternName	Unique index constraint

wItemPatterns

Documentation WardrobeData

Description Table containing associated Item and Pattern records.

Columns

Key	Name	Data Type	Null	Attributes	Description
Primary, Foreign	itemID	MediumInt		Identity	Primary key for “Item Pattern” records and foreign key for “Item” records.
Primary, Foreign	patternID	TinyInt		Identity	Primary key for “Item Pattern” records and foreign key for “Pattern” records.
	patternShare	Decimal(3,2)		Total of “patternShare” per itemID must equal 1 (i.e. 100%)	An approximation of how much of a pattern is represented on the item of clothing.

Relations

Foreign Table	Primary Table	Join
wItem	wItemPatterns	wItemPatterns.itemID = wItem .itemID
wColor	wItemPatterns	wItemPatterns.patternID = wPattern .patternID

Unique Keys

Key Name	Columns	Description
PK_ItemPatterns_ItemId_PatternId	itemID, patternID	Primary key constraint
FK_ItemPatterns_ItemId	itemID	Foreign key constraint
FK_ItemPatterns_PatternID	patternID	Foreign key constraint



Database Views

Documentation WardrobeData

Description View containing relevant, active Clothing Item fields.

Columns

Key	Name	Data Type	Null	Attributes	Description
	Item ID	MediumInt			
	Clothing Item	VarChar(100)			
	Type	VarChar(30)			
	Brand	VarChar(30)			
	Sizing	JSON Object	Yes		
	Colors	VarChar(100)	Yes	Values separated by “,”	Common color name from “wColor” table.
	Materials	VarChar(200)	Yes	Values separated by “,”	Material names from “wMaterial” table.
	Patterns	VarChar(100)	Yes	Values separated by “,”	Pattern names from “wPattern” table.
	Statuses	VarChar(100)	Yes	Values separated by “,”	Clothing item statuses from “wStatuses” table.
	Keywords	VarChar(100)	Yes	Values separated by “,”	Keywords from “wKeywords” table.
	Owner Name	VarChar(81)			
	Quantity	TinyInt			
	Item Cost	Decimal(6,2)	Yes		
	Date of Purchase	Date	Yes		

Script

```
CREATE VIEW vAllActiveItems AS
  SELECT wi.itemID AS 'Item ID'
    , wi.description AS 'Clothing Item'
    , wit.typeName AS 'Type'
    , wib.brandName AS 'Brand'
    , wi.size AS 'Sizing'
    , GROUP_CONCAT(DISTINCT ic.commonName) AS 'Colors'
    , GROUP_CONCAT(DISTINCT im.materialName) AS 'Materials'
    , GROUP_CONCAT(DISTINCT ip.patternName) AS 'Patterns'
    , GROUP_CONCAT(DISTINCT st.statusName) AS 'Statuses'
    , GROUP_CONCAT(DISTINCT kw.word) AS 'Keywords'
    , CONCAT(wio.firstName, ' ', wio.lastName) AS 'Owner Name'
    , wi.qtyOwned AS 'Quantity'
    , wi.cost AS 'Item Cost'
    , wi.purchaseDate AS 'Date of Purchase'

  FROM wItem wi
  JOIN wItemOwner wio ON wio.ownerID = wi.ownerID
  JOIN wItemBrand wib ON wib.brandID = wi.brandID
  JOIN wItemType wit ON wit.typeID = wi.itemTypeID
  LEFT JOIN (SELECT wikw.itemID, wkw.word
    FROM wItemKeyWords wikw
    JOIN wKeyword wkw ON wikw.wordID = wkw.wordID) kw ON kw.itemID = wi.itemID
  LEFT JOIN (SELECT wis.itemID, ws.statusName
    FROM wItemStatus wis
    JOIN wStatus ws ON wis.statusID = ws.statusID) st ON st.itemID = wi.itemID
  LEFT JOIN (SELECT wic.itemID, wc.commonName
    FROM wItemColors wic
    JOIN wColor wc ON wic.hexCode = wc.hexCode) ic ON ic.itemID = wi.itemID
  LEFT JOIN (SELECT wim.itemID, wm.materialName
    FROM wItemMaterials wim
    JOIN wMaterial wm ON wim.materialID = wm.materialID) im ON im.itemID = wi.itemID
  LEFT JOIN (SELECT wip.itemID, wp.patternName
    FROM wItemPatterns wip
    JOIN wPattern wp ON wip.patternID = wp.patternID) ip ON ip.itemID = wi.itemID

  WHERE wi.active = 1

  GROUP BY 1, 2, 3, 4, 5, 11, 12, 13, 14;
```



Documentation WardrobeData

Description View containing fields related to each “Fit”.

Columns

Key	Name	Data Type	Null	Attributes	Description
	Fit ID	Int			
	Fit Date/Time	DateTime			
	Occasion	VarChar(30)			
	Clothing Items	VarChar(400)		Values separated by “,”	Item descriptions from “wItem” table.
	Satisfaction Rating	JSON Object	Yes		

Script

```
CREATE VIEW vAllFits AS
    SELECT oc.fitID AS 'Fit ID'
        , oc.fitDateTime AS 'Fit Date/Time'
        , oc.occasionName AS 'Occassion'
        , GROUP_CONCAT(DISTINCT wi.description) AS 'Clothing Items'
        , satisfactionRating AS 'Satisfaction Rating'

    FROM wFitItems wfi
    JOIN wItem wi ON wi.itemID = wfi.itemID
    JOIN (SELECT wf.fitID, wf.fitDateTime, wfo.occasionName, wf.satisfactionRating
        FROM wFit wf
        JOIN wFitOccasion wfo ON wf.occasionID = wfo.occasionID
        ) oc ON oc.fitID = wfi.fitID

    GROUP BY 1, 2, 3, 5;
```

vAllItemColors

Documentation WardrobeData

Description View containing color shares from all items.

Columns

Key	Name	Data Type	Null	Attributes	Description
	hexCode	Char(7)			
	commonName	VarChar(20)			
	totalShare	Decimal(6,2)			The sum of color share for each item grouped by the hexCode and commonName.

Script

```
CREATE VIEW vAllItemColors AS
    SELECT c.hexCode, c.commonName, SUM(i.colorShare) AS 'totalShare'

    FROM wItemColors i
    JOIN wColor c ON c.hexCode = i.hexCode
    JOIN wItem wi ON i.itemID = wi.itemID

    WHERE wi.active = 1

    GROUP BY c.hexCode, c.commonName
    ORDER BY c.commonName, c.hexCode;
```

vAllFitColors

Documentation WardrobeData

Description View containing color shares from all fits.

Columns

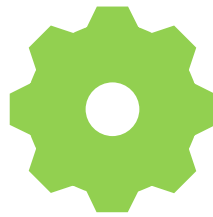
Key	Name	Data Type	Null	Attributes	Description
	fitDate	Date			Truncated fitDateTime value from wFit.
	hexCode	Char(7)			
	commonName	VarChar(20)			
	totalShare	Decimal(6,2)			The sum of color share for each item grouped by the hexCode and commonName.

Script

```
CREATE VIEW vAllFitColors AS
    SELECT DATE_FORMAT(wf.fitDateTime, '%Y-%m-%d') AS fitDate, ic.hexCode, ic.commonName, SUM(ic.colorShare) AS 'totalShare'

    FROM wFitItems wfi
    LEFT JOIN (
        SELECT wi.itemID, wic.hexCode, wc.commonName, wic.colorShare
        FROM wItemColors wic
        JOIN wItem wi ON wi.itemID = wic.itemID
        JOIN wColor wc ON wc.hexCode = wic.hexCode
        ) ic ON ic.itemID = wfi.itemID
    LEFT JOIN wFit wf ON wf.fitID = wfi.fitID

    GROUP BY wf.fitDateTime, ic.hexCode, ic.commonName
    ORDER BY ic.commonName, ic.hexCode;
```



Database Procedures

addFitOccasion

Documentation WardrobeData

Description Procedure to add a valid “FitOccasion” record.

Input/Output

Mode	Name	Data Type	Description
IN	occasion_name	VarChar(30)	A value to be added as an “FitOccasion” record to the table.

Script

```
DELIMITER //
CREATE PROCEDURE addItemBrand (IN brand_name VARCHAR(30))
BEGIN
    INSERT INTO witemBrand (brandName)
    VALUES (brand_name);
END //
DELIMITER ;
```

addFit

Documentation WardrobeData

Description Procedure to add a valid “Fit” record.

Input/Output

Mode	Name	Data Type	Description
IN	fit_date_time	VarChar(255)	A date time value of wearing an outfit.
IN	occasion_name	VarChar(20)	Name of an occasion for the outfit.
IN	satisfaction_rtg	TinyInt	A value between 1 and 4 relating to one’s satisfaction with the outfit.

Script

```
DELIMITER //
CREATE PROCEDURE addFit (IN fit_date_time VARCHAR(255), occasion_name VARCHAR(20),
    satisfaction_rtg TINYINT)
BEGIN
    DECLARE date_time DATETIME;
    SET date_time = CONVERT(fit_date_time, DATETIME);

    INSERT INTO wFit (fitDateTime, occasionID, satisfactionRating)
    VALUES (date_time, getFitOccasionId(occasion_name), satisfaction_rtg);
END //
DELIMITER ;
```


addItem

Documentation WardrobeData

Description Procedure to add a valid “Item” record.

Input/Output

Mode	Name	Data Type	Description
IN	active_status	Boolean	A value for whether the item of clothing is still owned or not.
IN	descrip	VarChar(100)	A description value of the clothing item.
IN	email_address	VarChar(255)	A valid email address containing a “@” and “.”
IN	brand_name	VarChar(30)	A value for the brand name of the clothing item.
IN	item_size	JSON	A JSON object for the sizing specifications of the clothing item.
IN	type_name	VarChar(30)	A value for the type (category) of clothing item.
IN	quantity	TinyInt	A numerical value for the units own identical to the clothing item.
IN	purchase_date	Date	A date value for when the item of clothing was purchased.
IN	item_cost	Decimal(6,2)	A value for the monetary cost of the clothing item.
IN	photo_path	VarChar(50)	The sub-pathway to the photo file for the clothing item.

Script

```
DELIMITER //
CREATE PROCEDURE addItem (IN active_status BOOLEAN
    , IN descrip VARCHAR(100)
    , IN email_address VARCHAR(255)
    , IN brand_name VARCHAR(30)
    , IN item_size JSON
    , IN type_name VARCHAR(30)
    , IN quantity TINYINT
    , IN purchase_date VARCHAR(255)
    , IN item_cost DECIMAL(6,2)
    , IN photo_path VARCHAR(50))
BEGIN
    INSERT INTO wlitem (active
        , description
        , ownerId
        , brandID
        , size
        , itemTypeID
        , qtyOwned
        , purchaseDate
        , cost
        , photoFileSubPath)
    VALUES (active_status
        , descrip
        , getItemOwnerId(email_address)
        , getItemBrandId(brand_name)
        , item_size
        , getItemTypeId(type_name)
        , quantity
        , CONVERT(purchase_date, DATE)
        , item_cost
        , photo_path);
END //
DELIMITER ;
```

addFitItems

Documentation WardrobeData

Description Procedure to add a valid pair of “Item” and “Fit” records.

Input/Output

Mode	Name	Data Type	Description
IN	fit_id	Int	A valid “Fit” id
IN	item_id	MediumInt	A valid “Item” id

Script

```
DELIMITER //
CREATE PROCEDURE addFitItems (IN fit_id INT, item_id MEDIUMINT)
BEGIN
    INSERT INTO wFitItems (fitID, itemID)
    VALUES (fit_id, item_id);
END //
DELIMITER ;
```

addItemOwner

Documentation WardrobeData

Description Procedure to add a valid “ItemOwner” record.

Input/Output

Mode	Name	Data Type	Description
IN	email_address	VarChar(255)	An email address value to be added as a record to the “Material” table.
IN	first_name	VarChar(30)	A first name value to be added as a record to the “Material” table.
IN	last_name	VarChar(50)	A last name value to be added as a record to the “Material” table.

Script

```
DELIMITER //
CREATE PROCEDURE addItemOwner (IN email_address VARCHAR(255), IN first_name
    VARCHAR(30), last_name VARCHAR(50))
BEGIN
    INSERT INTO witemOwner (emailAddress, firstName, lastName)
    VALUES (email_address, first_name, last_name);
END //
```

addStatus

Documentation WardrobeData

Description Procedure to add a valid “Status” record.

Input/Output

Mode	Name	Data Type	Description
IN	status_name	VarChar(30)	A value to be added as an “Status” record to the table.

Script

```
DELIMITER //  
CREATE PROCEDURE addStatus (IN status_name VARCHAR(30))  
BEGIN  
    INSERT INTO wStatus (statusName)  
        VALUES (status_name);  
END //  
DELIMITER ;
```

addItemStatus

Documentation WardrobeData

Description Procedure to add a valid pair of “Item” and “Status” records.

Input/Output

Mode	Name	Data Type	Description
IN	itemID	MediumInt	A valid “Item” id
IN	Status_name	VarChar(30)	A value from the “Status” table to be added as an “ItemStatus” record.

Script

```
DELIMITER //
CREATE PROCEDURE addItemStatus (IN item_id MEDIUMINT, status_name VARCHAR(30))
BEGIN
    INSERT INTO wItemStatus (itemID, statusID)
    VALUES (item_id, getStatusId(status_name));
END //
DELIMITER ;
```

addItemBrand

Documentation WardrobeData

Description Procedure to add a valid “ItemBrand” record.

Input/Output

Mode	Name	Data Type	Description
IN	brand_name	VarChar(30)	A value to be added as an “ItemBrand” record to the table.

Script

```
DELIMITER //  
CREATE PROCEDURE addItemBrand (IN brand_name VARCHAR(30))  
BEGIN  
    INSERT INTO witemBrand (brandName)  
        VALUES (brand_name);  
END //  
DELIMITER ;
```

addItemType

Documentation WardrobeData

Description Procedure to add a valid “ItemType” record.

Input/Output

Mode	Name	Data Type	Description
IN	type_name	VarChar(30)	A value to be added as an “ItemType” record to the table.

Script

```
DELIMITER //  
CREATE PROCEDURE addItemType (IN type_name VARCHAR(20))  
BEGIN  
    INSERT INTO witemType (typeName)  
        VALUES (type_name);  
END //  
DELIMITER ;
```


addKeyWord

Documentation WardrobeData

Description Procedure to add a valid “KeyWord” record.

Input/Output

Mode	Name	Data Type	Description
IN	key_word	VarChar(20)	A value to be added as a “KeyWord” record in the table.

Script

```
DELIMITER //  
CREATE PROCEDURE addKeyWord (IN key_word VARCHAR(20))  
BEGIN  
    INSERT INTO wKeyWord (word)  
    VALUES (key_word);  
END //  
DELIMITER ;
```

addItemKeyWord

Documentation WardrobeData

Description Procedure to add a valid pair of “Item” and “KeyWord” records.

Input/Output

Mode	Name	Data Type	Description
IN	item_id	MediumInt	A valid “Item” id
IN	key_word	VarChar(20)	A valid keyword name from “wKeyWord”

Script

```
DELIMITER //
CREATE PROCEDURE addItemKeyWord(IN item_id MEDIUMINT, key_word VARCHAR(20))
BEGIN
    INSERT INTO wItemKeyWords (itemID, wordID)
    VALUES (item_id, getKeyWordId(key_word));
END //
DELIMITER ;
```

addMaterial

Documentation WardrobeData

Description Procedure to add a valid “Material” record.

Input/Output

Mode	Name	Data Type	Description
IN	mat_name	VarChar(20)	A value to be added as a “Material” record in the table.

Script

```
DELIMITER //
CREATE PROCEDURE addMaterial (IN mat_name VARCHAR(20))
BEGIN
    INSERT INTO wMaterial (materialName)
    VALUES (mat_name);
END //
DELIMITER ;
```

addItemMaterial

Documentation WardrobeData

Description Procedure to add a valid pair of “Item” and “Material” records.

Input/Output

Mode	Name	Data Type	Description
IN	item_id	MediumInt	A valid “Item” id
IN	materialName	VarChar(50)	
IN	material_share	Decimal(3,2)	The decimal share (0 to 1) of an item representing the material in question

Script

```
DELIMITER //
CREATE PROCEDURE addItemMaterial (IN item_id MEDIUMINT, materialName VARCHAR(50), material_share DECIMAL(3,2))
BEGIN
    INSERT INTO witemMaterials (itemID, materialID, materialShare)
    VALUES (item_id, getMaterialId(materialName), material_share);
END //
DELIMITER;
```

addColor

Documentation WardrobeData

Description Procedure to add a valid “Color” record.

Input/Output

Mode	Name	Data Type	Description
IN	hex_code	Char(7)	A value for the color hex code to be added as a “Color” record to the table.
IN	commonName	VarChar(20)	A value for the color’s common name to be added as a “Color” record to the table.

Script

```
DELIMITER //  
CREATE PROCEDURE addColor (IN hex_code CHAR(7), common_name VARCHAR(20))  
BEGIN  
    INSERT INTO wColor (hexCode, commonName)  
    VALUES (hex_code, common_name);  
END //  
DELIMITER ;
```

addItemColor

Documentation WardrobeData

Description Procedure to add a valid pair of “Item” and “Color” records.

Input/Output

Mode	Name	Data Type	Description
IN	item_id	MediumInt	A valid “Item” id
IN	hex_code	Char(7)	A valid hexadecimal code starting with a “#” corresponding to an entry in “wColor”
IN	color_share	Decimal(3,2)	The decimal share (0 to 1) of an item representing the color in question

Script

```
DELIMITER //
CREATE PROCEDURE addItemColor (IN item_id MEDIUMINT, hex_code CHAR(7), color_share DECIMAL(3,2))
BEGIN
    INSERT INTO witemColors (itemID, hexCode, colorShare)
    VALUES (item_id, hex_code, color_share);
END //
DELIMITER ;
```

addPattern

Documentation WardrobeData

Description Procedure to add a valid “Pattern” record.

Input/Output

Mode	Name	Data Type	Description
IN	pattern_name	VarChar(20)	A “Pattern” record to be added to the table.

Script

```
DELIMITER //  
CREATE PROCEDURE addPattern (IN pattern_name VARCHAR(20))  
BEGIN  
    INSERT INTO wPattern (patternName)  
    VALUES (pattern_name);  
END //  
DELIMITER ;
```

addItemPattern

Documentation WardrobeData

Description Procedure to add a valid pair of “Item” and “Pattern” records.

Input/Output

Mode	Name	Data Type	Description
IN	item_id	MediumInt	A valid “Item” id
IN	patternName	Var(20)	
IN	pattern_share	Decimal(3,2)	The decimal share (0 to 1) of an item representing the pattern in question

Script

```
DELIMITER //
CREATE PROCEDURE addItemPattern (IN item_id MEDIUMINT, patternName VARCHAR(20), pattern_share DECIMAL(3,2))
BEGIN
    INSERT INTO witemPatterns (itemID, patternID, patternShare)
    VALUES (item_id, getPatternId(patternName), pattern_share);
END //
DELIMITER ;
```




Database Functions

getFitId

Documentation WardrobeData

Description Function to retrieve the primary key of a matching “Fit” record.

Input/Output

Mode	Name	Data Type	Description
IN	fit_date_time	VarChar(255)	A string for the date/time matching a “Fit” record.
IN	occasion	VarChar(30)	A “Fit Occasion” record in the table.
OUT	ID	Int	A matching primary key for the desired “Fit” record. Value of -1 for unmatching record.

Script

```
DELIMITER //
CREATE FUNCTION getFitId (fit_date_time VARCHAR(255), occasion VARCHAR(30))
    RETURNS INT
BEGIN
    DECLARE ID INT;
    DECLARE date_time_of_fit DATE;
    DECLARE fit_occasion_id TINYINT;
    SET fit_occasion_id = getFitOccasionId(occasion);
    SET date_time_of_fit = CONVERT(fit_date_time, DATETIME);

    SELECT fitID INTO ID
    FROM wFit
    WHERE occasionID = fit_occasion_id
    AND fitDateTime = date_time_of_fit;

    IF ID IS NULL THEN
        SET ID = -1;
    END IF;

    RETURN ID;
END //
DELIMITER ;
```

getItemOwnerId

Documentation WardrobeData

Description Function to retrieve the primary key of a matching “Item Owner” record.

Input/Output

Mode	Name	Data Type	Description
IN	email_address	VarChar(255)	An owner email address record in the table.
OUT	ID	TinyInt	A matching primary key for the desired “Item Owner” record. Value of -1 for unmatching record.

Script

```
DELIMITER //
CREATE FUNCTION getItemOwnerId (email_address VARCHAR(255))
    RETURNS TINYINT
BEGIN
    DECLARE ID TINYINT;

    SELECT ownerID INTO ID
    FROM wItemOwner
    WHERE emailAddress = email_address;

    IF ID IS NULL THEN
        SET ID = -1;
    END IF;

    RETURN ID;
END //
DELIMITER ;
```

getStatusId

Documentation WardrobeData

Description Function to retrieve the primary key of a matching “Status” record.

Input/Output

Mode	Name	Data Type	Description
IN	status_name	VarChar(30)	A “Item Status” record in the table.
OUT	ID	TinyInt	A matching primary key for the desired “Status” record. Value of -1 for unmatching record.

Script

```
DELIMITER //
CREATE FUNCTION getStatusId (status_name VARCHAR(30))
RETURNS TINYINT
BEGIN
    DECLARE ID TINYINT;

    SELECT statusID INTO ID
    FROM wStatus
    WHERE statusName = status_name;

    IF ID IS NULL THEN
        SET ID = -1;
    END IF;

    RETURN ID;
END //
DELIMITER ;
```

getItemBrandId

Documentation WardrobeData

Description Function to retrieve the primary key of a matching “Item Brand” record.

Input/Output

Mode	Name	Data Type	Description
IN	brand_name	VarChar(30)	A “Item Brand” record in the table.
OUT	ID	SmallInt	A matching primary key for the desired “Item Brand” record. Value of -1 for unmatching record.

Script

```
DELIMITER //
CREATE FUNCTION getItemBrandId (brand_name VARCHAR(30))
    RETURNS SMALLINT
BEGIN
    DECLARE ID SMALLINT;

    SELECT brandID INTO ID
    FROM wItemBrand
    WHERE brandName = brand_name;

    IF ID IS NULL THEN
        SET ID = -1;
    END IF;

    RETURN ID;
END //
DELIMITER ;
```

getItemTypeId

Documentation WardrobeData

Description Function to retrieve the primary key of a matching “Item Type” record.

Input/Output

Mode	Name	Data Type	Description
IN	type_name	VarChar(30)	A “Item Type” record in the table.
OUT	ID	TinyInt	A matching primary key for the desired “Item Type” record. Value of -1 for unmatching record.

Script

```
DELIMITER //
CREATE FUNCTION getItemTypeId (type_name VARCHAR(30))
    RETURNS TINYINT
BEGIN
    DECLARE ID TINYINT;

    SELECT typeId INTO ID
    FROM wItemtype
    WHERE typeName = type_name;

    IF ID IS NULL THEN
        SET ID = -1;
    END IF;

    RETURN ID;
END //
DELIMITER ;
```

getKeyWordId

Documentation WardrobeData

Description Function to retrieve the primary key of a matching “KeyWord” record.

Input/Output

Mode	Name	Data Type	Description
IN	key_word	VarChar(20)	A “KeyWord” record in the table.
OUT	ID	SmallInt	A matching primary key for the desired “KeyWord” record. Value of -1 for unmatching record.

Script

```
DELIMITER //
CREATE FUNCTION getKeyWordId (key_word VARCHAR(20))
    RETURNS SMALLINT
BEGIN
    DECLARE ID SMALLINT;

    SELECT wordID INTO ID
    FROM wKeyWord
    WHERE word = key_word;

    IF ID IS NULL THEN
        SET ID = -1;
    END IF;

    RETURN ID;
END //
DELIMITER ;
```

getMaterialId

Documentation WardrobeData

Description Function to retrieve the primary key of a matching “Material” record.

Input/Output

Mode	Name	Data Type	Description
IN	material	VarChar(50)	A “Material” record in the table.
OUT	ID	TinyInt	A matching primary key for the desired “Material” record. Value of -1 for unmatching record.

Script

```
DELIMITER //
CREATE FUNCTION getMaterialId (material VARCHAR(50))
    RETURNS TINYINT
BEGIN
    DECLARE ID TINYINT;

    SELECT materialID INTO ID
    FROM wMaterial
    WHERE materialName = material;

    IF ID IS NULL THEN
        SET ID = -1;
    END IF;

    RETURN ID;
END //
DELIMITER ;
```


getPatternId

Documentation WardrobeData

Description Function to retrieve the primary key of a matching “Pattern” record.

Input/Output

Mode	Name	Data Type	Description
IN	pattern	VarChar(20)	A “Pattern” record in the table.
OUT	ID	TinyInt	A matching primary key for the desired “Pattern” record. Value of -1 for unmatching record.

Script

```
DELIMITER //
CREATE FUNCTION getPatternId (pattern VARCHAR(20))
    RETURNS TINYINT
BEGIN
    DECLARE ID TINYINT;

    SELECT patternID INTO ID
    FROM wPattern
    WHERE patternName = pattern;

    IF ID IS NULL THEN
        SET ID = -1;
    END IF;

    RETURN ID;
END //
DELIMITER ;
```