

Database Update

1. Left 'Account' table as is. Removed all foreign key constraints that were on the Accounts table. The

Account (market)

Structure Data Constraints Indexes Triggers DDL

Table name: Account ☐ WITHOUT ROWID

	Name	Data type	Primary Key	Foreign Key	Unique	Check	Not NULL	Collate	Default value
1	accountId	INTEGER							NUL
2	accountRoleId	INTEGER							NUL
3	accountScreenName	VARCHAR (30)							NUL
4	firstName	VARCHAR (50)							NUL
5	lastName	VARCHAR (50)							NUL
6	age	VARCHAR (5)							NUL
7	email	VARCHAR (50)							NUL
8	phoneNumber	VARCHAR (10)							NUL
9	streetAddress	VARCHAR (150)							NUL
10	accountTierChoice	VARCHAR (10)							NUL

Accounts table is one of the 'parent' tables in our database. There are also children tables. I added the foreign keys to the child tables to obtain from their parents.

2. Updated 'AccountRoleId' (Child table of Account and AccountRoleType Tables)
 - a. Allocated 'accountRoleId' as unique primary key. Adding 'account_Id' as the foreign key to account table, and 'accountTypeId' as foreign key to 'AccountRoleType' table.

AccountRoleId (market)

Structure Data Constraints Indexes Triggers DDL

Table name: AccountRoleId ☐ WITHOUT ROWID

	Name	Data type	Primary Key	Foreign Key	Unique	Check	Not NULL	Collate	Default value
1	accountRoleId	INTEGER							NULL
2	account_Id	INTEGER							NULL
3	accountTypeId	INTEGER							NULL

3. Created a new table called 'AccountRoleType'. (This is another parent table, no foreign keys used here).
 - a. that holds the name of each account type. 'accountTypeId' is primary key, and corresponds to customer, administrator, vendor:

The screenshot shows the 'AccountRoleType (market)' table structure and its data. The table has two columns: 'accountTypeId' (INTEGER, Primary Key, Not NULL) and 'accountType' (VARCHAR (15), NULL). The data view shows three rows: 1 Customer, 2 Administrator, and 3 Vendor.

Name	Data type	Primary Key	Foreign Key	Unique	Check	Not NULL	Collate	Default value
1 accountTypeId	INTEGER	Yes				Yes		NULL
2 accountType	VARCHAR (15)							NULL

accountTypeId	accountType
1	Customer
2	Administrator
3	Vendor

4. Created 'Account_Ingredient' table. (Child table of Account and Ingredient)
 - a. Contains 'accountIngredientId' as unique primary key. 'account_Id' as foreign key to 'Account' table, and 'ingredient_Id' as foreign key to 'Ingredient' table.

The screenshot shows the 'Account_Ingredient (market)' table structure. The table has three columns: 'accountIngredientId' (INTEGER, Primary Key, Unique, NULL), 'ingredient_Id' (INTEGER, Foreign Key, NULL), and 'account_Id' (INTEGER, Foreign Key, NULL).

Name	Data type	Primary Key	Foreign Key	Unique	Check	Not NULL	Collate	Default value
1 accountIngredientId	INTEGER	Yes		Yes				NULL
2 ingredient_Id	INTEGER		Yes					NULL
3 account_Id			Yes					NULL

5. Updated Ingredient table. (This is another parent table, no foreign keys used here).
 - a. Removed 'accountScreenName' and 'streetAddress' from table.
 - b. Added 'qtyAvail' to table.
 - c. Updated 'ingredientName' to have unique constraint because multiple vendors could sell the same product (i.e carrots. Account Five and account 6 could both sell carrots.)

Ingredient (market)

Structure Data Constraints Indexes Triggers DDL

Table name: ☐ WITHOUT ROWID

	Name	Data type	Primary Key	Foreign Key	Unique	Check	Not NULL	Collate	Default value
1	ingredientId	INTEGER							NULL
2	ingredientName	VARCHAR (50)							NULL
3	qtyAvailable	INTEGER							NULL
4	ingredientCategory	VARCHAR (30)							NULL
5	ingredientServingSize	INTEGER							NULL
6	starIngredient	VARCHAR (75)							NULL
7	ingredientDescription	VARCHAR (150)							NULL

Type Name Details

6. Updated Recipe table. (This is another parent table, no foreign keys used here).
 - a. Removed 'inventoryId' and 'ingredientName'
 - b. Added 'recipeInstruction' for user to add how to make recipe.

Recipe (market)

Structure Data Constraints Indexes Triggers DDL

Table name: Recipe ☐ WITHOUT ROWID

	Name	Data type	Primary Key	Foreign Key	Unique	Check	Not NULL	Collate	Default value
1	recipeId	INTEGER							NULL
2	recipeTitle	VARCHAR (255)							NULL
3	adjPortionSize	INTEGER							NULL
4	recipeInstruction	VARCHAR (500)							NULL
5	defaultServingSize	INTEGER							NULL
6	alternativeRecipe	VARCHAR (75)							NULL
7	faveRecipe	VARCHAR (5)							NULL

Type Name Details

7. Created 'recipe_Ingredients' table. (Child table of Ingredients and Recipe)
 - a. Allocated 'recipeIngredientId' as unique primary key.
 - b. Allocated 'recipe_Id' as foreign key of Recipe table.
 - c. Allocated 'ingredient_Id' as foreign key of Ingredient table.

Recipe_Ingredients (market)

Structure Data Constraints Indexes Triggers DDL

Table name: Recipe_Ingredients ☐ WITHOUT ROWID

	Name	Data type	Primary Key	Foreign Key	Unique	Check	Not NULL	Collate	Default value
1	recipeIngredientId	INTEGER							NULL
2	recipe_Id	INTEGER							NULL
3	ingredient_Id	INTEGER							NULL

Type Name Details

8. Created 'Account_Recipe' table. (Child Table of Account and Recipe).
 - a. Allocated 'accountRecipeld' as unique primary key.
 - b. Allocated 'account_Id' as foreign key to Account table.
 - c. Allocated 'recipe_Id' as foreign key to Recipe table.

Account_Recipe (market)

Structure Data Constraints Indexes Triggers DDL

Table name: Account_Recipe ☐ WITHOUT ROWID

	Name	Data type	Primary Key	Foreign Key	Unique	Check	Not NULL	Collate	Default
1	accountRecipeld	INTEGER							NULL
2	account_Id	INTEGER							NULL
3	recipe_Id	INTEGER							NULL

Type Name Details

9. Updated 'calendarMenu' as is. (Child table to Recipe table)
 - a. Allocated 'menuId' as unique primary key.
 - b. Allocated 'recipeld' as foreign key to Recipe table.

CalendarMenu (market)

Structure Data Constraints Indexes Triggers DDL

Table name: CalendarMenu ☐ WITHOUT ROWID

	Name	Data type	Primary Key	Foreign Key	Unique	Check	Not NULL	Collate	Default value
1	menuId	INTEGER							NULL
2	recipeld	INTEGER							NULL
3	dayOfWeek	VARCHAR (10)							NULL
4	mealType	VARCHAR (15)							NULL
5	menuTitle	VARCHAR (30)							NULL

Type Name Details

10. Created 'account_Menu' (Child table of 'CalendarMenu' and 'Account'. Because one account can make multiple calendars)
 - a. Allocated 'accountMenuId' as unique primary key.
 - b. Allocated 'menu_Id' as foreign key to CalendarMenu table.
 - c. Allocated 'account_Id' as foreign key to Account table.

account_Menu (market)

Structure Data Constraints Indexes Triggers DDL

Table name: account_Menu ☐ WITHOUT ROWID

	Name	Data type	Primary Key	Foreign Key	Unique	Check	Not NULL	Collate	Default value
1	accountMenuId	INTEGER							NULL
2	menu_Id	INT							NULL
3	account_Id	INTEGER							NULL

Type Name Details

11. Updated InventoryLookup. (Parent table no foreign keys on this table)
 - a. Allocated 'inventoryId' as unique primary key.
 - b. Removed 'qtyAvailable', 'accountScreenName', 'ingredientId', 'streetAddress', 'ingredientName' from table.

InventoryLookup (market)

Structure Data Constraints Indexes Triggers DDL

Table name: InventoryLookup ☐ WITHOUT ROWID

	Name	Data type	Primary Key	Foreign Key	Unique	Check	Not NULL	Collate	Default value
1	inventoryId	INTEGER							NULL
2	inventoryTitle	VARCHAR (75)							NULL
3	inventoryStatus	VARCHAR (10)							NULL
4	inventoryMarketStamp	DATE							NULL

Type Name Details

12. Created 'Ingredient_Inventory' table. (child table of Ingredient and InventoryLookup table)
 - a. Allocated 'ingredientInventory' as unique primary key.
 - b. Allocated 'ingredient_Id' as foreign key to 'Ingredient' table.
 - c. Allocated 'inventory_Id' as foreign key to 'InventoryLookup' table.

Ingredient_Inventory (market)

Structure Data Constraints Indexes Triggers DDL

Table name: ☐ WITHOUT ROWID

	Name	Data type	Primary Key	Foreign Key	Unique	Check	Not NULL	Collate	Default value
1	ingredientInventory								NULL
2	ingredient_Id	INTEGER							NULL
3	inventory_Id	INTEGER							NULL

Type Name Details

13. Created Account_InventoryLU. (child table of Account and Inventory Lookup table)
 - a. Allocated accountLId as unique primary key.
 - b. Allocated 'account_Id' as foreign key to account table.
 - c. Allocated 'inventory_Id' as foreign key to InventoryLookup table.

Account_InventoryLU (market)

Structure Data Constraints Indexes Triggers DDL

Table name: ☐ WITHOUT ROWID

	Name	Data type	Primary Key	Foreign Key	Unique	Check	Not NULL	Collate	Default value
1	accountLId	INTEGER							NULL
2	account_Id	INTEGER							NULL
3	inventory_Id	INTEGER							NULL

Type Name Details