




Tea Time Magazine

Sydney Lum
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Overview

Description: This site is a creative hub for recipes, articles, fashion, sewing, and home decor. Users can explore detailed content, view photos, and find inspiration across different lifestyle topics. Organized and easy to navigate, the site connects ideas, styles, and projects in one place.

Target audience: The target audience for this site includes individuals interested in cooking, fashion, sewing, home decor, and lifestyle inspiration. It appeals to creative hobbyists, DIY enthusiasts, home cooks, and readers looking for fresh ideas and projects. The site is designed for people who enjoy learning new skills, exploring personal style, and finding creative ways to enhance their daily lives.

Normalization

(1NF)

each column holds indivisible values, every row is uniquely identifiable, usually by a primary key

EX: fashion table: clothing_item_description column contains detailed descriptions of each clothing item, with no multiple values stored in a single field. each piece of information (description or photo URL) separate and identifiable

(2NF)

non-key attributes depend on the entire primary key

EX: recipes table: recipe_name and recipe_description are fully dependent on recipe_id

single primary key per table, no partial dependencies exist, maintains consistency and prevent unnecessary duplications

(3NF)

makes sure that all non-key attributes depend solely on the primary key, with no indirect dependencies

EX: the recipes table, recipe_name and recipe_description are linked only to recipe_id, and photo-related data (recipe_photo_id, recipe_photo_url) stored in a separate recipe_photo table

Tables

Articles

article_id (INT, PRIMARY KEY): Uniquely identifies each article.

author_first_name (VARCHAR, 100): Stores the first name of the author.

author_last_name (VARCHAR, 100): Stores the last name of the author.

author_email (VARCHAR, 255): Stores the email address of the author.

article_name (VARCHAR, 255): The title of the article.

article_description (TEXT): A short description or summary of the article.

publish_date (DATE): The date the article was published.

Design Considerations:

author_first_name, author_last_name, and author_email are stored as separate columns, allowing for efficient querying of author information. The article details like article_name and article_description are easily queried as text fields.

Purpose: Stores information about various articles, including the author's name and email, article name, and description.

	article_id	author_first_name	author_last_name	author_email	
▶	1	April	Showers	bringmayflowers@gmail.com	
	2	Ray	Geraldi	rgeraldi@gmail.com	
	3	Eve	Tokens	evetokens@gmail.com	
	4	Kaylee	Pope	kpoppe@gmail.com	
	5	David	Mela	Dmelameals@gmail.com	
	6	Steve	Peters	speters@gmail.com	
	7	AnnMarie	Mattila	amm@gmail.com	
	8	Hannah	Klinger	hklinger@gmail.com	
	9	Simone	Howem	Showem@gmail.com	
	10	Lauren	Cochrane	cochrane@gmail.com	
	11	Emily	May	eemay@gmail.com	
	12	Isabel	Steele	steele.isa@gmail.com	
	13	Erica	Ball	ericaballstyle@gmail.com	
	14	Jennifer	Ebert	jennyebert@gmail.com	
	15	Michelle	Brunner	Michbrun@gmail.com	
	16	Christina	Dennis	cdennis@gmail.com	
	17	Lauren	Hamilton	laurenh@gmail.com	
	18	Heather	Luckhurst	luckhurst@gmail.com	
	19	Jessi	Lockheart	thecoffeemom@gmail.com	
	20	chefworks		chefworks@gmail.com	
	21	Karen	Howell	karenhowell@yahoo.com	
	22	Katrin	Bennhold	katrin@yahoo.com	
	23	Lisa Selin	Davis	lisaselindavis@yahoo.com	
	24	Elizabeth	Nohammer	nohammer@ymail.com	
	25	Nick	Pope	npope@hotmail.com	
	26	Daniel	Johnson	djohnson@hotmail.com	
	27	Daphne	Ewing-Chow	daphchow@hotmail.com	
	28	Allison	Aubrey	alliaubrey@gmail.com	
	29	Leonard	Sax	lsax@gmail.com	
	30	Anna	Marie	annamarie@gmail.com	
	31	Andrea	Hsu	hsuandrea@gmail.com	
	32	Eva	Cifre	Evacifre@ymail.com	
	NULL	NULL	NULL	NULL	

Recipes

recipe_id (INT, PRIMARY KEY): Uniquely identifies each recipe.

recipe_name (VARCHAR, 255): Stores the name of the recipe.

recipe_description (TEXT): Stores a detailed description of the recipe.

recipe_type (VARCHAR, 100): Stores the type/category of the recipe (e.g., "Dessert", "Main Course").

recipe_photo_id (INT, FOREIGN KEY): Links to the recipe_photo table for the recipe's image.

ingredient_list (TEXT): Stores a list of ingredients, typically as a comma-separated string (may need further normalization).

directions (TEXT): Provides the instructions for preparing the recipe.

`post_date` (DATE): The date the recipe was posted.

Design Considerations:

This table identifies each recipe by a unique `recipe_id`, and `recipe_photo_id` is used to link to a photo stored in the `recipe_photo` table. The `ingredient_list` and `directions` columns allow for text storage without limitations on length, as they may contain long data.

Purpose: Stores information about different recipes, including details like the recipe name, description, and photo.

[illegible]

Recipe_photo

recipe_photo_id (INT, PRIMARY KEY): Uniquely identifies each recipe photo.

recipe_photo_url (VARCHAR, 255): Stores the URL of the recipe's photo.

Design Considerations:

The recipe_photo table is designed to store all photos associated with recipes in a separate table. This allows for better organization and scalability, especially when multiple recipes share the same photo or when photos need to be updated independently.

Purpose: Stores photo URLs for recipe images.

	recipe_photo_id	recipe_photo_url	
▶	1	macandcheese.png	
	2	pbj.png	
	3	breakfastburrito.png	
	4	cheesylasagna.png	
	5	tacocasserole.png	
	6	salmonwithbrowns...	
	7	pestochickenrolls....	
	8	spicylimeshrimp.png	
	9	friedcabbageandn...	
	15	turkeyburgers.png	
	NULL	NULL	

Decor

`decor_id` (INT, PRIMARY KEY): Uniquely identifies each decor item.

`name` (VARCHAR, 255): Stores the name of the decor item.

`description` (TEXT): A detailed description of the decor.

`photo_id` (INT, FOREIGN KEY): Links to the `decor_photo` table for the decor's image.

`manufacture_date` (DATE): The date when the decor item was manufactured.

	decor_id	decor_name	decor_description	decor_photo_id	manufacture_date	article_id	
▶	1	Hydraulic Lift Up Storage Upholstered Platform Bed	Full of sleek modern style, this upholste...	1	2020-09-28	11	
	2	Hertford 26" Wide Mid Century Upholstered Solid Wood Accent Chair with an Extra Pillow	This armchair brings a casual, coastal a...	2	2017-05-26	12	
	3	Grandmothers Best Solid Wood End Table	This pedestal end table is featured with...	3	2019-04-05	13	
	4	Chinny 22.7" 2 Drawer Nightstand	Space-saving storage meets modern mi...	4	2019-07-11	14	
	5	Together HDPE Folding Adirondack Chair (Set of 4)	Kick back and relax with this set of four...	5	2024-08-12	15	
	6	Koree Standing & Height-Adjustable Desks	Work smarter (and look cool doing it) wi...	6	2025-01-09	16	
	7	Landon Faux Leather Task Chair with Padded Arms	This task chair combines elegance and...	7	2025-06-07	17	
	8	Wendel Endel Table	This narrow end table adds a traditional...	8	2023-05-19	18	
	9	Lumley Mid Century Solid Wood Accent Chair Upholstered Armchair with an Extra Pillow	This mid century modern accent chair is...	9	2023-05-19	19	
	10	Sabby 47.0" W 6 - Drawer Dresser	This 6-drawer dresser offers a sleek an...	10	2023-04-01	20	
		NULL	NULL	NULL	NULL	NULL	

Design Considerations:

By separating the photo details into a separate table (`decor_photo`), the database maintains flexibility in storing and associating images with decor items. This also prevents duplication if multiple decor items share the same image.

Purpose: Stores information about decor items, such as their name, description, and associated photo.

Decor_photo

`decor_photo_id` (INT, PRIMARY KEY): Uniquely identifies each decor photo.

`decor_photo_url` (VARCHAR, 255): Stores the URL of the photo.

Design Considerations:

The `decor_photo` table allows for separate storage of photos, which keeps the decor item data independent from the actual image, supporting easy image updates and management.

Purpose: Stores photo URLs for decor item images.

	decor_photo_id	decor_photo_url	
▶	1	platformbed.png	
	2	solidwoodaccentchair.png	
	3	endtable.png	
	4	chinnydrawernightstand.png	
	5	togetherchair.png	
	6	koreestandingdesk.png	
	7	landonarmchair.png	
	8	wendelendeltable.png	
	9	lumleyarmchair.png	
	10	sabbydrawerdresser.png	
	NULL	NULL	

Sewing

pattern_id (INT, PRIMARY KEY): Uniquely identifies each pattern.

name (VARCHAR, 255): The name of the sewing pattern.

description (TEXT): A detailed description of the sewing pattern.

`sewing_example_photo_id` (INT, FOREIGN KEY): Links to a photo in the `sewing_example_photo` table.

creation_date (DATE): The date the pattern was created.

Design Considerations:

The `sewing_example_photo_id` links to a `photo` table, which stores images separately, keeping the `sewing` table clean and ensuring that each pattern's image can be reused if necessary.

Purpose: Stores information about sewing patterns, their descriptions, and related images.

pattern_id	pattern_name	pattern_description	sewing_example_photo_id	creation_date	article_id
1	The Asheville Dress Free Sewing Pattern	Perfect for capturing that relaxed yet refined sea...	1	2025-04-24	31
2	The Ibiza Trousers Free Sewing Pattern	Designed with structure and versatility, these tro...	2	2025-04-03	32
3	The Marbella Foldover Top Free Sewing Pattern	This off-the-shoulder top features long sleeves...	3	2025-04-02	33
4	The Sorrento Set Free Sewing Pattern	The adaptable two-piece ensemble features a c...	4	2023-03-29	34
5	The Ischia Cardigan Free Sewing Pattern	Perfect for both formal and informal events, the l...	5	2024-10-08	35
6	The Taormina Joggers Free Sewing Pattern	As a fabric company, we know the importance o...	6	2022-06-17	36
7	The Ophelia Dress Free Sewing Pattern	This free sewing pattern is perfect for those who...	7	2025-02-03	37
8	The Ravenna Suit Free Sewing Pattern	This free sewing pattern features a blazer with a...	8	2025-01-28	38
9	The Palermo Pajamas Free Sewing Pattern	This free sewing pattern includes a loose-fitting...	9	2023-09-07	39
10	The Eia Peplum Top and Ava Mini Skirt	This sleek two-piece set is made with suiting fab...	10	2024-12-24	40
NULL	NULL	NULL	NULL	NULL	NULL

Sewing_example_photo

sewing_example_photo_id (INT, PRIMARY KEY): Uniquely identifies each sewing example photo.

sewing_example_photo_url (VARCHAR, 255): Stores the URL of the photo.

Design Considerations:

Similar to the clothing_item_photo table, this table separates photo data from the main sewing pattern data, making it easier to manage images and ensure efficient updates.

Purpose: Stores photo URLs for sewing pattern examples.

	sewing_example_photo_id	sewing_example_photo_url	
▶	1	asheville.png	
■	2	ibiza.png	
■	3	marbella.png	
■	4	sorrento.png	
■	5	ischia.png	
■	6	taormina.png	
■	7	ophelia.png	
■	8	ravenna.png	
■	9	palermo.png	
■	10	elaandava.png	
■	NULL	NULL	

Fashion

clothing_item_id (INT, PRIMARY KEY): Uniquely identifies each clothing item.

name (VARCHAR, 255): The name of the clothing item.

description (TEXT): A detailed description of the clothing item.

photo_id (INT, FOREIGN KEY): Links to the clothing_item_photo table for the clothing item's image.

upload_date (DATE): The date the clothing item was uploaded.

Design Considerations:

The photo_id links the clothing item to a separate photo table, allowing for easy management of multiple clothing items with different images. The upload_date provides useful metadata about when the item was added to the system.

Purpose: Stores details about fashion items, such as clothing descriptions, photos, and upload dates.

	clothing_item_id	clothing_item_name	clothing_item_description	clothing_item_photo_id	upload_date	article_id	
▶	1	Mia Cable Knit Sweater	A cable knit sweater featuring ribbed an...	1	2024-08-08	21	
	2	Italy Crop Top	A jersey knit tube top featuring contrasti...	2	2020-09-02	22	
	3	Jeannie Cable Knit Sweater Vest	A cable knit sweater vest featuring a V-...	3	2018-12-12	23	
	4	Kyutie Rhinestone Cami Mini Dress	A stretchy nylon mini dress featuring a...	4	2018-12-12	24	
	5	Shiny Fringe Denim Shorts	Crafted from non-stretch denim, this pal...	5	2025-03-07	25	
	6	Aris Oversized Bow Hair Barrette	A hair barrette featuring an oversized s...	6	2016-02-10	26	
	7	Beam Faux Leather Mini Skirt	This faux leather mini skirt features bac...	7	2008-08-19	27	
	8	White Pajama Slip Dress	This pajama slip dress features an allow...	8	2025-04-22	28	
	9	Seamless Longline Sports Bra	An athletic knit sports bra featuring a V-...	9	2024-02-01	29	
	10	Sheer Leopard Crew Sock Set - 2 pack	A set of knit crew socks featuring a she...	10	2024-09-04	30	
	NULL	NULL	NULL	NULL	NULL	NULL	

Clothing_item_photo

clothing_item_photo_id (INT, PRIMARY KEY): Uniquely identifies each clothing item photo.

clothing_item_photo_url (VARCHAR, 255): Stores the URL of the photo.

Design Considerations:

The clothing_item_photo table ensures that photos are stored separately from the clothing items, allowing for more flexibility in managing images and enabling multiple clothing items to share the same photo.

Purpose: Stores photo URLs for clothing items.

	clothing_item_photo_id	clothing_item_photo_url	
▶	1	mia.png	
	2	italy.png	
	3	jeannie.png	
	4	kyutie.png	
	5	shiny.png	
	6	aris.png	
	7	beam.png	
	8	whitepj.png	
	9	seamlessbra.png	
	10	sheer.png	
	NULL	NULL	

Queries

A general SELECT query with an ORDER BY clause

```
SELECT * FROM articles
```

```
ORDER BY author_last_name asc;
```



A SELECT query that includes a WHERE clause

```
SELECT author_first_name
```

```
FROM articles
```

```
WHERE author_email = "kpope@gmail.com";
```



A Delete Query

DELETE

FROM recipes

WHERE recipe_id = 11;

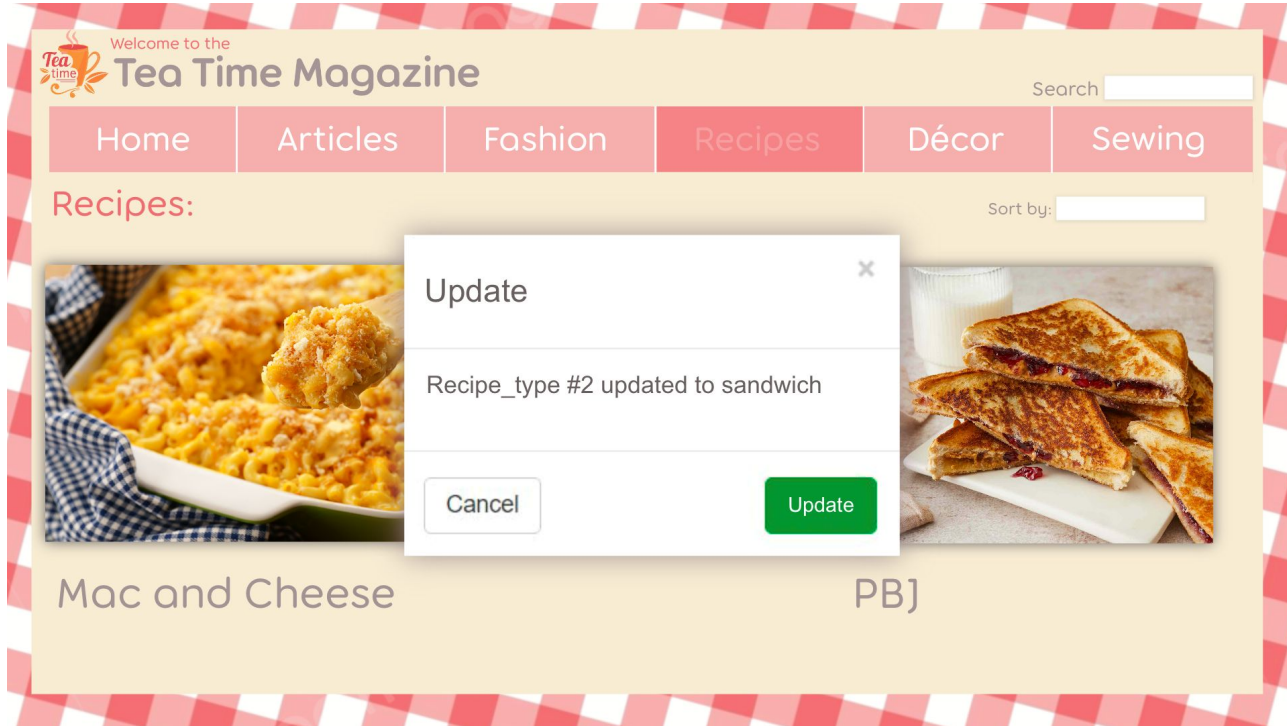


An Update Query

UPDATE recipes

SET recipe_type = 'sandwich'

WHERE recipe_id = 2



An Insert Query

```
INSERT INTO recipes (recipe_id, recipe_name,  
recipe_type, post_date)
```

```
VALUES (11, 'Tomato Soup', 'Soup', '2025-04-26');
```



A query for inner join

SELECT

 recipes.recipe_id,
 recipes.recipe_type,
 recipes.recipe_description,
 recipe_photo.recipe_photo_url

FROM recipes

INNER JOIN recipe_photo ON recipes.recipe_photo_id = recipe_photo.recipe_photo_id;



A query for outer join (left or right)

SELECT

p.recipe_photo_id,

p.recipe_photo_url,

r.recipe_id

FROM recipes r

RIGHT JOIN recipe_photo p ON r.recipe_photo_id =
p.recipe_photo_id;



A query with an aggregate function(s)

```
SELECT COUNT(*) AS total_recipes
```

```
FROM recipes;
```

Count all recipes

```
SELECT AVG(LENGTH(ingredient_list) - LENGTH(REPLACE(ingredient_list, ',', '')) + 1) AS avg_ingredients
```

```
FROM recipes
```

```
WHERE ingredient_list IS NOT NULL;
```

Average number of ingredients (if stored as comma-separated text and you're counting commas):

```
SELECT MAX(post_date) AS latest_post
```

```
FROM recipes;
```

Latest recipe posted

A query that includes GROUP BY and HAVING clauses

```
SELECT recipe_type, COUNT(*) AS total
```

```
FROM recipes
```

```
GROUP BY recipe_type;
```

Count recipes by type

A query with a subquery

```
SELECT *  
FROM (  
    SELECT recipe_type, COUNT(*) AS type_count  
    FROM recipes  
    GROUP BY recipe_type  
) AS recipe_counts  
WHERE type_count > 1;
```

Get the number of recipes **per type**, then filter that:

A query that includes a string function

```
insert into clothing_item_photo (clothing_item_photo_id, clothing_item_photo_url)  
values (11, bluetop.png);
```

A query that includes a numeric function

```
SELECT recipe_id,  
       LENGTH(ingredient_list) AS  
       ingredient_list_length  
  
FROM recipes;
```



A query that includes a date function

```
SELECT recipe_id, YEAR(post_date) AS post_year
```

```
FROM recipes;
```





Thank you!

