BOOK API

-

LIGHTNOVELS

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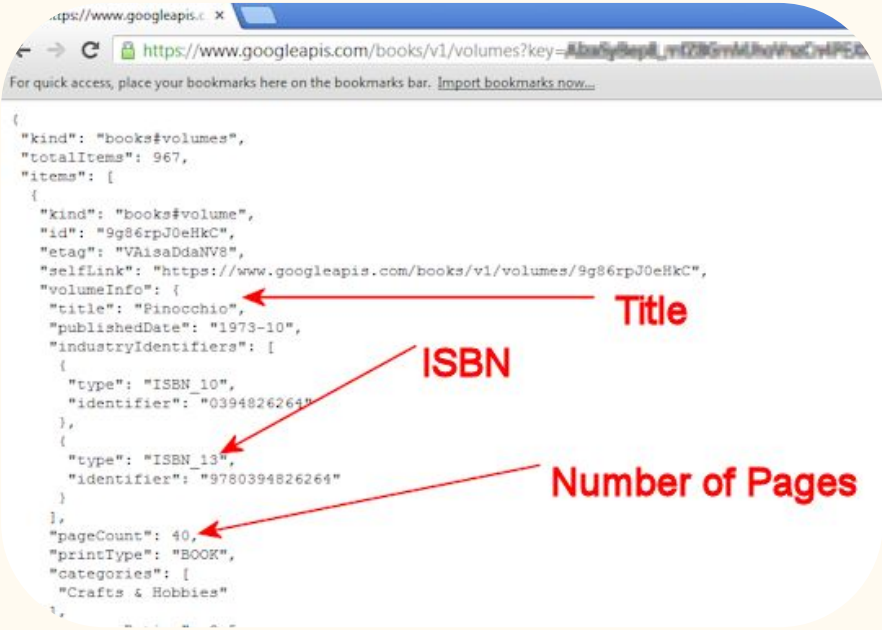
BOOK API

- Provides search and display functionality for online books
- Returns book information
  - Open Library API
  - Google Books API

Why?

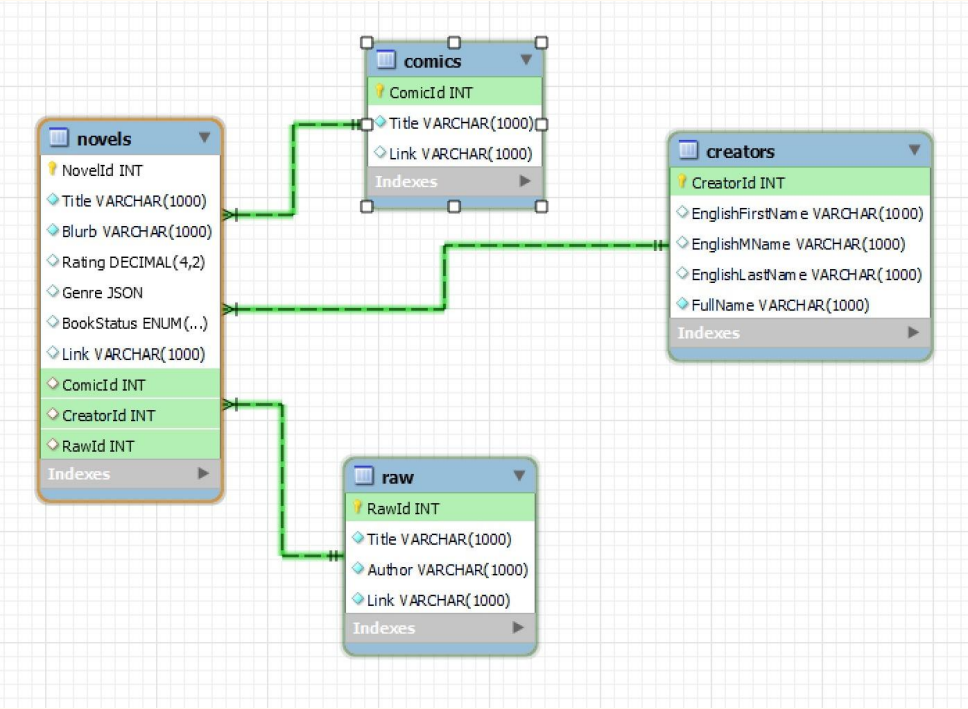
- Saw something similar online
- Like reading



Lightnovels

- Asian novel for young adults

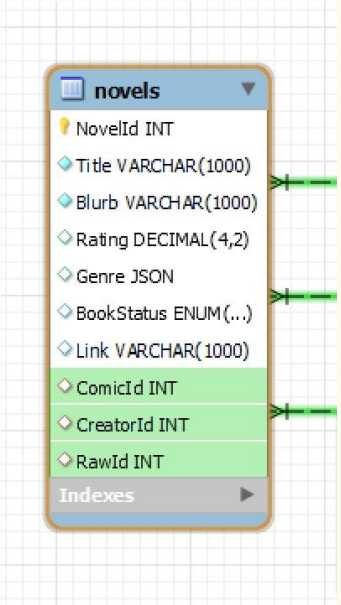
Database


comics
ComicId INT
Title VARCHAR(1000)
Link VARCHAR(1000)
Indexes
novels
NovelId INT
Title VARCHAR(1000)
Blurb VARCHAR(1000)
Rating DECIMAL(4,2)
Genre JSON
BookStatus ENUM(...)
Link VARCHAR(1000)
ComicId INT
CreatorId INT
RawId INT
Indexes
creators
CreatorId INT
EnglishFirstName VARCHAR(1000)
EnglishMName VARCHAR(1000)
EnglishLastName VARCHAR(1000)
FullName VARCHAR(1000)
Indexes
raw
RawId INT
Title VARCHAR(1000)
Author VARCHAR(1000)
Link VARCHAR(1000)
Indexes

Novels

Primary Key

Foreign Key

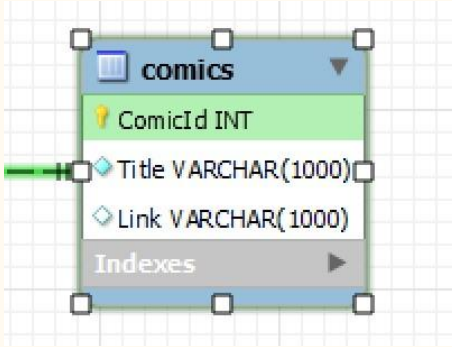



```
CREATE TABLE Novels (
    NovelId INT NOT NULL AUTO_INCREMENT,
    Title VARCHAR(1000) NOT NULL,
    Blurb VARCHAR(1000) NOT NULL,
    Rating DECIMAL(4, 2) NULL,
    Genre JSON,
    BookStatus ENUM('ongoing', 'completed', 'hiatus'),
    Link VARCHAR(1000) NULL,
    PRIMARY KEY (NovelId)
);

ALTER TABLE Novels ADD COLUMN ComicId INT;
ALTER TABLE Novels ADD CONSTRAINT FK_NovelComic
FOREIGN KEY (ComicId) References Comics(ComicId);
ALTER TABLE Novels ADD COLUMN RawId INT;
ALTER TABLE Novels ADD CONSTRAINT FK_NovelRaw
FOREIGN KEY (RawId) References Raw(RawId);
ALTER TABLE Novels ADD COLUMN CreatorId INT;
ALTER TABLE Novels ADD CONSTRAINT FK_NovelCreator
FOREIGN KEY (CreatorId) References Creators(CreatorId);
```

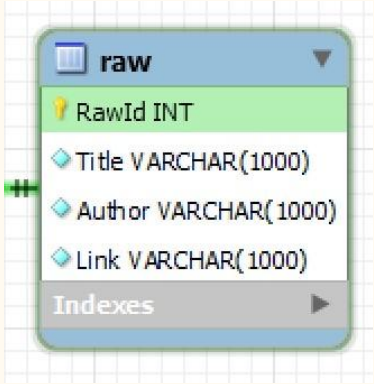
Primary Key

Comics and Raw



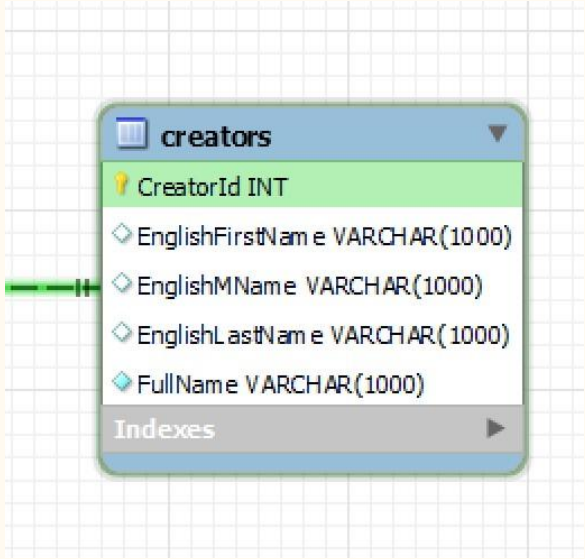

```
CREATE TABLE Comics (
    ComicId INT NOT NULL AUTO_INCREMENT,
    Title VARCHAR(1000) NOT NULL,
    Link VARCHAR(1000) NULL,
    PRIMARY KEY (ComicId)
);
```

```
CREATE TABLE Raw (
    RawId INT NOT NULL AUTO_INCREMENT,
    Title VARCHAR(1000) NOT NULL,
    Author VARCHAR(1000) NOT NULL,
    Link VARCHAR(1000) NOT NULL,
    PRIMARY KEY (RawId)
);
```



Creators

Primary Key




```
CREATE TABLE Creators (
    CreatorId INT NOT NULL AUTO_INCREMENT,
    EnglishFirstName VARCHAR(1000),
    EnglishMName VARCHAR(1000),
    EnglishLastName VARCHAR(1000),
    FullName VARCHAR(1000) NOT NULL,
    PRIMARY KEY (CreatorId)
);
```

API ENDPOINTS

Allows user to make requests to the API

- GET /bookapi/lightnovels/
  - GET /bookapi/lightnovels/{name of table}
- GET /bookapi/lightnovels/{title}
- PUT bookapi/lightnovels/{title}
- DELETE /bookapi/lightnovels/{title}

API	Description	Request	Response
GET /bookapi/lightnovels/	Gets all the light novels in the database	None	Array of lightnovels
GET /bookapi/lightnovels/{id}	Gets the information identified by “id”	None	Item of light novel
PUT /bookapi/lightnovels/{id}	Updates the information identified by “id”	Light novel item	None
DELETE /bookapi/lightnovels/{id}	Deletes information identified by “id”	None	None

id refers to any id in tables, including NovelId, CreatorId, ComicId, RawId

Thanks

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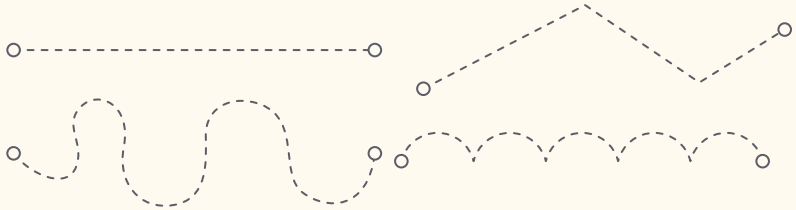
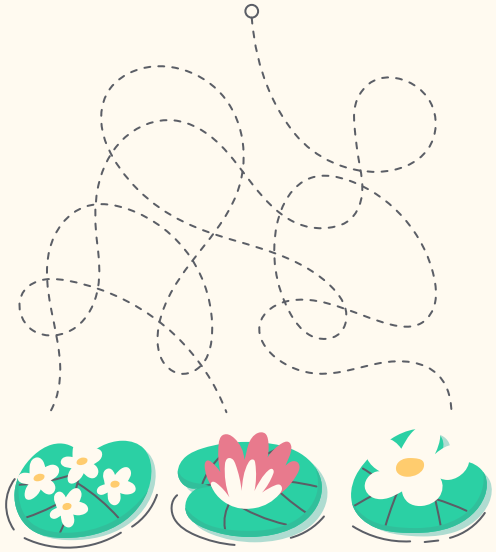
- Hand drawn tracing worksheet template IV
- Hand drawn tracing worksheet template V





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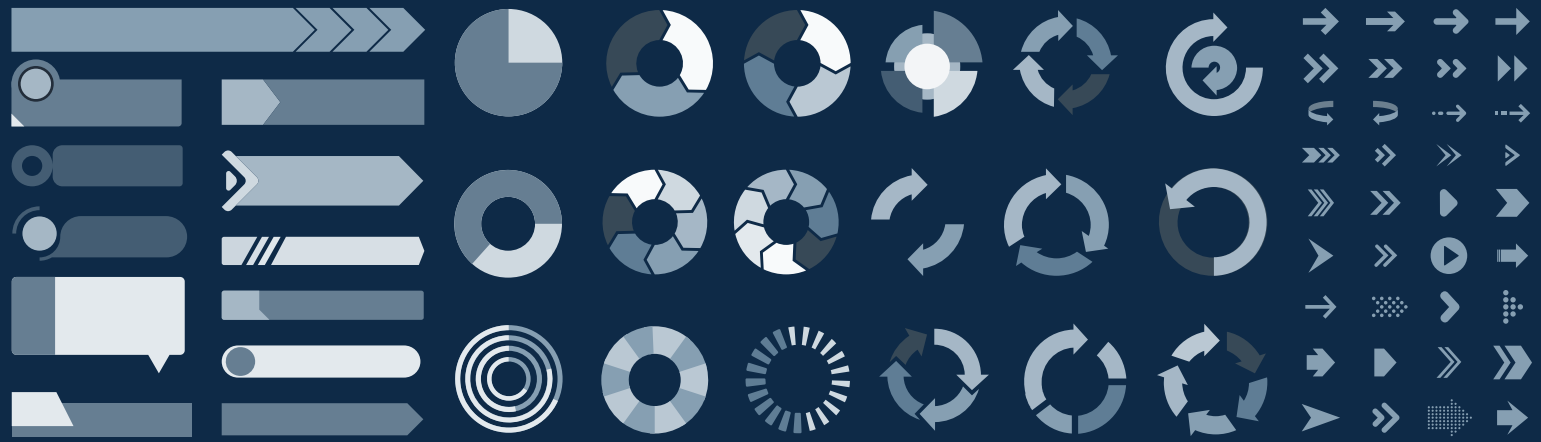

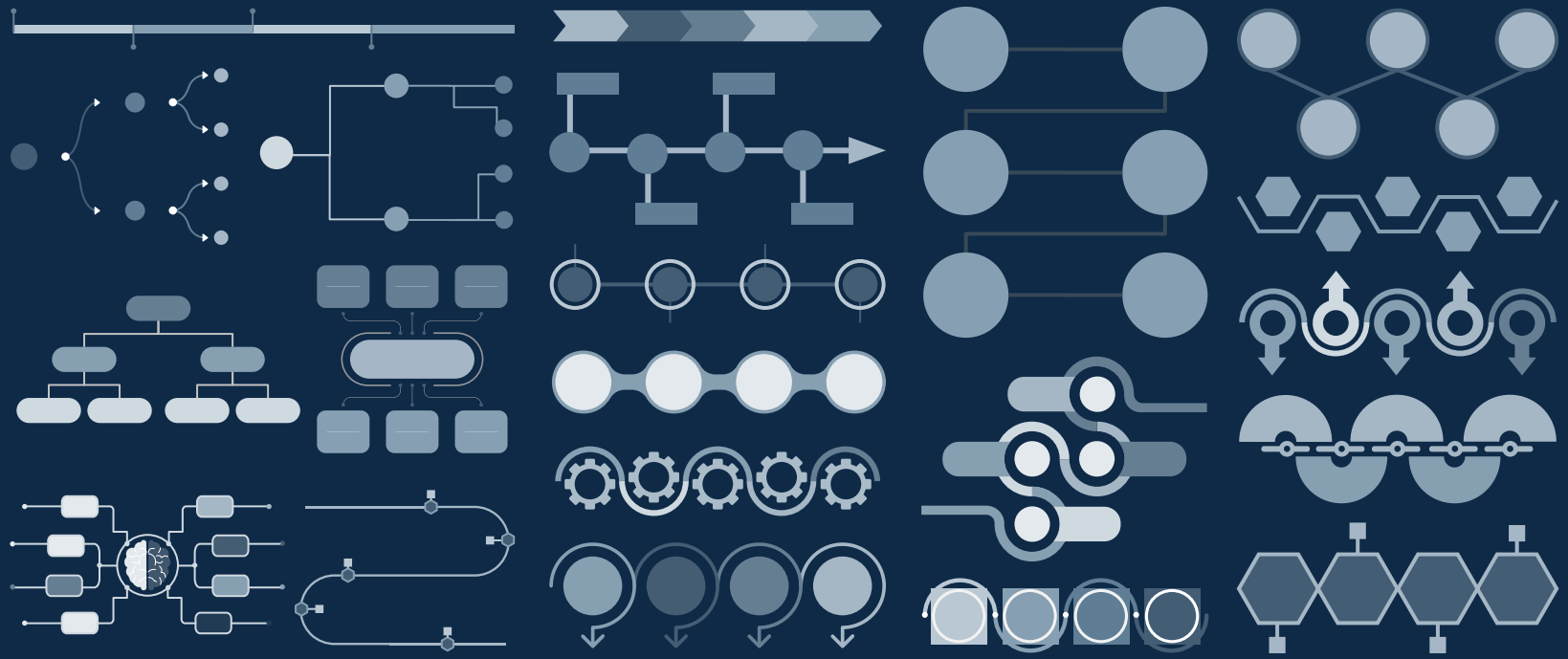

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MAY
JUNE
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Task 1
Task 2
PHASE 2
Task 1
Task 2
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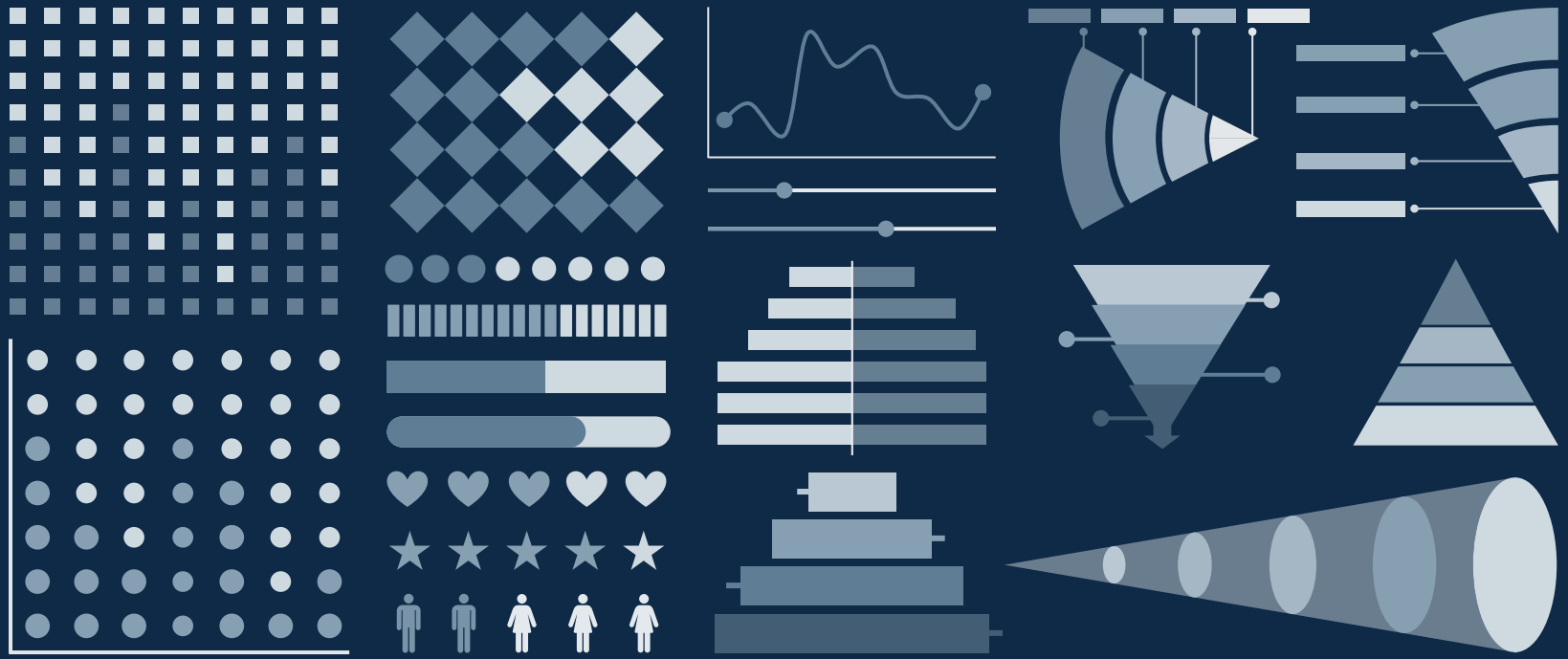
MARCH
APRIL
PHASE 1
Task 1
Task 2



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