

# SQL PROJECT BOOKS SALES ANALYSIS

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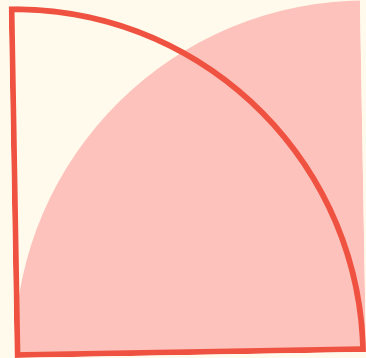
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# INTRODUCTION

- **Books read by users provided by them on Amazon.**
  - **The Author column specifies the name(s) of the author(s) responsible for creating each book. This information is crucial for understanding different authors' contributions and analyzing their impact on sales.**
  - **The Book title column contains the titles of the books. Each book has a unique name that distinguishes it from others in the dataset.**
  - **Online data for books from Amazon along with user ratings and users who bought the.**
  - **The dataset contain 4 tables**
- 

## DATASET INFO

<https://www.kaggle.com/datasets/saurabhbagchi/books-dataset>

# TABLE DATATYPES

## customer

- Customer\_ID varchar PRIMARY KEY
- User\_ID INT
- Age INT
- Gender VARCHAR
- State VARCHAR
- Country VARCHAR
- Pincode VARCHAR

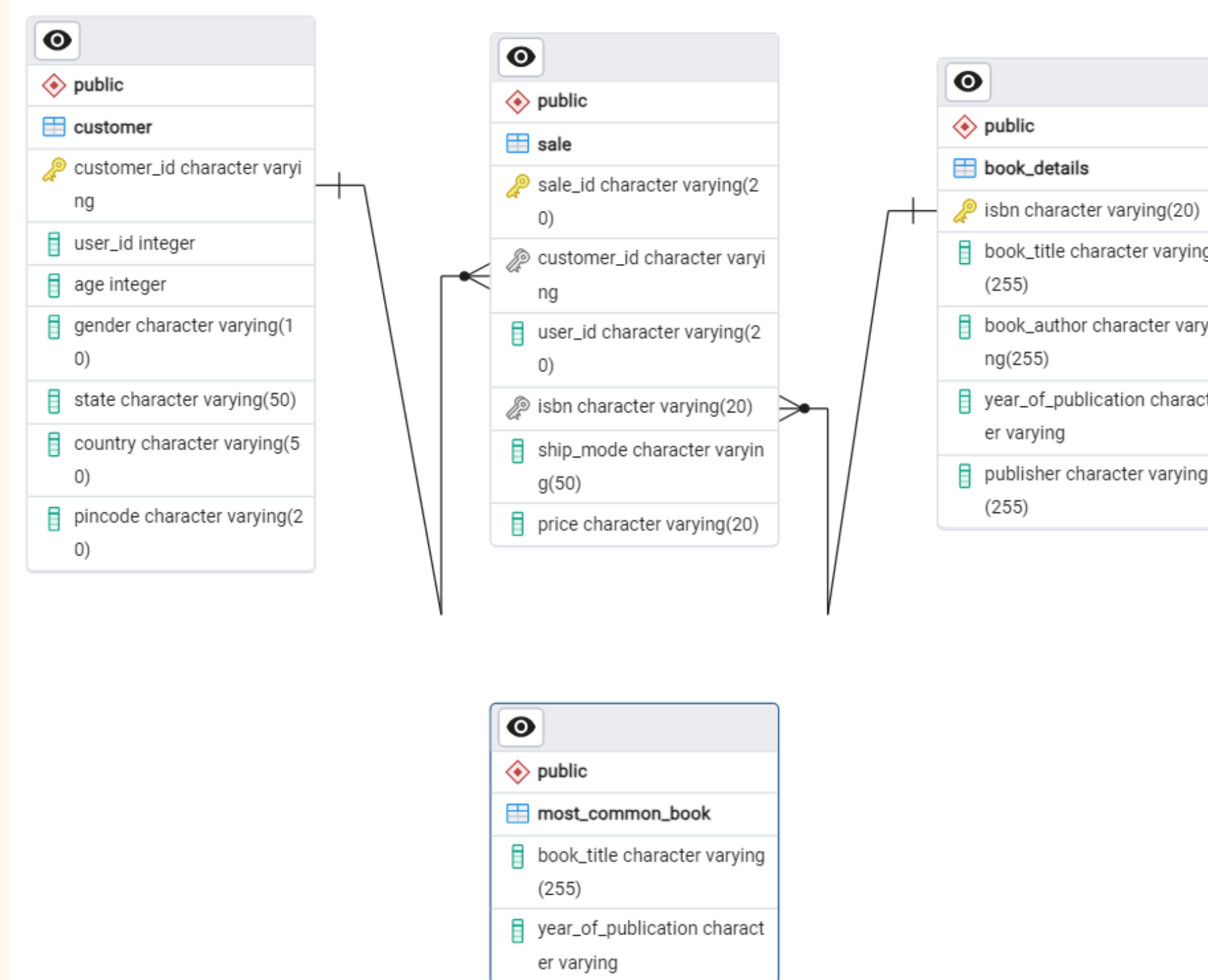
## book\_details

- ISBN VARCHAR PRIMARY KEY,
- Book\_Title VARCHAR
- Book\_Author VARCHAR
- Year\_Of\_Publication varchar
- Publisher VARCHAR

## Sale

- Sale\_ID VARCHAR PRIMARY KEY
- Customer\_ID varchar
- User\_ID VARCHAR
- ISBN VARCHAR
- Ship\_Mode VARCHAR
- Price VARCHAR

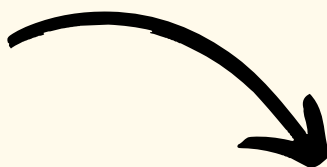
# ER DIAGRAM



# 1.What are the sale prices used for each shipping method?

## OUTPUT

```
SELECT Ship_mode,  
       Sum(CAST(sale.price as int)) AS Total_Sales  
FROM sale  
  GROUP BY Ship_mode  
HAVING sum(CAST(sale.price as int)) > 1000  
ORDER BY Total_Sales DESC;
```



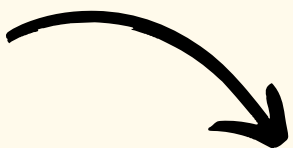
	ship_mode character varying (50)	total_sales bigint
1	Standard Class	126497
2	First Class	42215
3	Second Class	41791
4	Same Day	5154

# 2.Retrieve the total sales per Customer by Gender

## Identify genders with more than 3 total sales by total sales amount.

### OUTPUT

```
SELECT customer.Gender,  
COUNT(sale.sale_ID) AS Total_Sales_Count,  
sum(CAST(sale.price as int)) AS Total_Sales_Amount  
from sale join Customer ON  
sale.Customer_ID = customer.Customer_ID  
Group By Customer.Gender  
Having Count(sale.Sale_id) > 3;
```



	gender character varying (10) 🔒	total_sales_count bigint 🔒	total_sales_amount bigint 🔒
1	M	213	114516
2	F	188	101918



### 3. Give rank for each shipping mode.

#### OUTPUT

```
select Sale_ID, Customer_ID,  
Ship_Mode, Price,  
RANK()  
OVER(  
PARTITION BY ship_mode  
ORDER BY Price) as RANK_SALE  
from sale
```

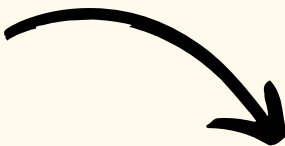


	sale_id [PK] character varying (20)	customer_id character varying	ship_mode character varying (50)	price character varying (20)	rank_sale bigint
69	38	37	First Class	963	69
70	134	133	First Class	973	70
71	194	193	First Class	976	71
72	59	58	First Class	98	72
73	378	377	First Class	98	72
74	60	59	First Class	988	74
75	225	224	First Class	990	75
76	132	131	First Class	994	76
77	342	341	Same Day	116	1
78	369	368	Same Day	147	2
79	321	320	Same Day	226	3
80	292	291	Same Day	242	4
81	290	289	Same Day	314	5
82	370	369	Same Day	341	6
83	345	344	Same Day	391	7
84	293	292	Same Day	396	8
85	371	370	Same Day	419	9
86	368	367	Same Day	44	10
87	324	323	Same Day	58	11
88	222	221	Same Day	6	12
Total rows: 401 of 401    Query complete 00:00:00.887					

# 4.Retrive all the price where price is greater than 950 and Ship\_mode is Same Day.

## OUTPUT

```
select * from sale
  where
sale_ID in(select distinct sale_ID from sale
  WHERE
CAST(Price AS NUMERIC) > 950)
AND
ship_mode = 'Same Day'
```

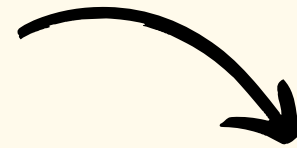


	sale_id [PK] character varying (20)	customer_id character varying	user_id character varying (20)	isbn character varying (20)	ship_mode character varying (50)	price character varying (20)
1	343	342	276875	8804321008	Same Day	976

## 5. Retrieve book\_title and Price of book which use same day ship mode.

### OUTPUT

```
SELECT book_details.Book_Title,  
       sale.Price,  
       sale.Ship_mode  
FROM book_details  
     INNER JOIN sale  
ON book_details.ISBN = sale.ISBN  
   WHERE Ship_mode = 'Same Day'
```

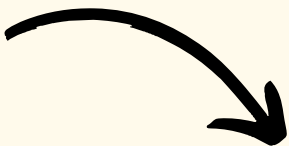


	book_title character varying (255) 🔒	price character varying (20) 🔒	ship_mode character varying (50) 🔒
1	Poisonwood Bible Edition Uk	314	Same Day
2	The Green Man : Tales from the Mythic	683	Same Day
3	Nicholas Nickleby (Everyman's Library	242	Same Day
4	Angels & Insects : Two Novellas	396	Same Day
5	The Breach	226	Same Day
6	Neanderthal: A Novel	6	Same Day
7	A Small Dark Place	71	Same Day
8	The Rivan Codex : Ancient Texts of TH	58	Same Day
9	Desert Notes/River Notes	116	Same Day
10	The Best Democracy Money Can Buy: The	976	Same Day
11	The Hunt for Red October	724	Same Day
12	The Music Box	391	Same Day
13	Danger	44	Same Day
14	Proof	147	Same Day
15	Heart of the Sea (Irish Trilogy)	341	Same Day
16	Mostly Harmless	419	Same Day

# 6. Retrieve Age,Country from customer,Ship\_mode from sale,Book\_Title from book\_details

## OUTPUT

```
SELECT
    customer.Age,
    customer.Country,
    sale.Ship_mode,
    book_details.Book_Title
FROM customer
    INNER JOIN sale
ON customer.Customer_ID = sale.Customer_ID
    INNER JOIN book_details
ON sale.ISBN = book_details.ISBN
```

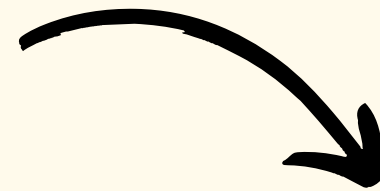


	age integer	country character varying (50)	ship_mode character varying (50)	book_title character varying (255)
1	30	USA	Standard	Pride and Prejudice
2	30	USA	Second Class	Classical Mythology
3	61	russia	Second Class	Clara Callan
4	26	portugal	Second Class	Decision in Normandy
5	14	united kingdom	Standard Class	Flu: The Story of the Great Influenza
6	26	usa	Standard Class	The Mummies of Urumchi
7	25	usa	Standard Class	The Kitchen God's Wife
8	19	canada	Standard Class	What If?: The World's Foremost Milita
9	46	usa	Standard Class	PLEADING GUILTY
10	19	spain	Standard Class	Under the Black Flag: The Romance and
11	55	australia	Standard Class	Where You'll Find Me: And Other Stori
12	32	usa	Standard Class	Nights Below Station Street
13	24	spain	Standard Class	Hitler's Secret Bankers: The Myth of
14	19	usa	Standard Class	The Middle Stories
15	24	canada	Standard Class	Jane Doe
16	20	usa	Standard Class	A Second Chicken Soup for the Woma...
17	34	usa	Standard Class	The Witchfinder (Amos Walker Mystery
18	17	usa	Standard Class	M. C. ... The M. C. ...
Total rows: 401 of 401		Query complete 00:00:00.084		

## 7. Create table with select Query where 15 most recently published unique books based on their titles and years of publication.

### OUTPUT

```
CREATE TABLE Most_Common_Book AS
  SELECT DISTINCT book_Title,
Year_Of_Publication
FROM book_details
  ORDER BY Year_Of_Publication
DESC limit 15;
select * from Most_Common_Book
```



	book_title character varying (255)	year_of_publication character varying
1	My Friend Flicka	2004
2	The League of Extraordinary Gentle...	2004
3	Blood Oath	2004
4	Liberty Falling (Anna Pigeon Mysterie	2004
5	Wild Animus	2004
6	Relics (Star Trek: The Next Generatio	2004
7	Sisterhood of the Traveling Pants	2004
8	The Middle Stories	2004
9	Life of Pi	2004
10	Moving Pictures (Discworld Novels (...)	2003
11	Prague : A Novel	2003
12	The Tao of Pooh	2003
13	Postmortem (Kay Scarpetta Mysteri...	2003
14	Tess of the D'Urbervilles (Wordsworth	2003
15	The Girl Who Loved Tom Gordon	2003

Thanks You

