E-PLATEORM FOR

Course: AT82.02 Data Modeling and Management

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WHAT IS A MUSICAL INSTRUMENT E-PLATFORM

- Musicians are eager to buy musical instrument and want to know their features before making the purchase.
- Although, traditionally musicians try the instrument before buying, nowadays the consistency in quality means that the product is exactly as listed.
- Buyers can watch online reviews before deciding to make a purchase.





NEED OF PROJECT

- To help people who want to know about the musical Instruments and its features.
- To help the people who want to purchase musical instruments.
- To help buyers make an informed decision.
- To connect the vendor and the buyer and facilitate safe business transaction.



BUSINESS RULES AND CONSTRAINTS

- The target area of the business is mainly within Bangkok city.
- Customers and vendors need to be registered on the platform to buy and sell any products respectively.
- Customers cannot cancel an order, once created.
- Vendors can add, update or delete the items that they have posted for sale.
- Customers can select only from within the given options of authorized payment methods.



BUSINESS RULES AND CONSTRAINTS

- The products and riders have a review/rating system that is given by the customers.
- The system calculates the average user given ratings for any product to display as overall rating.
- System calculates rider overall rating from given customer ratings.
- System calculates total price accounting for item's price, quantity and discount.
- Each order can only be associated with one payment method.



OPERATIONS

INSERT

- New Customer
- New Category
- New Vendor
- New Item
- New Order
- New OrderItem
- New Rider
- New Payment

UPDATE

- Customer Information
- Customer Password
- Vendor Information
- Item Description
- Item Review
- Order Total
- Rider rating
- Delivery Information
- Payment

DELETE

- Customer
- Vendor
- Item
- Order
- Rating





Queries & Reports

Customer:

- Gender distribution
- Age distribution
- Top 5 customers according to orders within past year
- No. of orders based on gender
- List of customers with orders in progress
- List of customers who have never ordered
- List of customers who have never rated

Vendor:

- Searching an item from vendor
- List of Top 5 vendors with most orders
- Vendor with maximum number of customers
- Revenue generated by each vendor
- Top 5 vendor with highest revenue

Item:

- Overview of item table
- Items separated by category
- Top 5 item with highest rating
- Most expensive item from particular category
- Item separated by country
- Top 3 item with most reviews
- Item categories by year
- Top 5 most ordered items
- Top 10 items for this month
- Show item and vendor details searched by item name and ordered by price

Rider:

- List riders with more than 3 rating
- Top 5 active riders by rating for November





Queries & Reports

Orders:

- Sales sorted by year
- Ranking of busiest month of 2021
- List of orders in past month
- List of paid orders currently in progress
- List of orders based on quantity
- Orders sorted by status
- No. of Orders delivered in last 30 days
- Total revenue generated via platform

Rating:

- Average rating
- Total number of ratings given by customers
- Vendors and Items with bad rating
- Vendors and Items with good rating
- Count of customers who have rated or not

Payment:

- Payment method and status summary
- Transaction via Cash on Delivery
- Transaction via E-payment
- List of customers who pay by COD
- List of customers who pay by E-payment
- List of customers who completed payments
- List of customers with pending payments
- Latest payment by COD
- Latest payment by E-payment

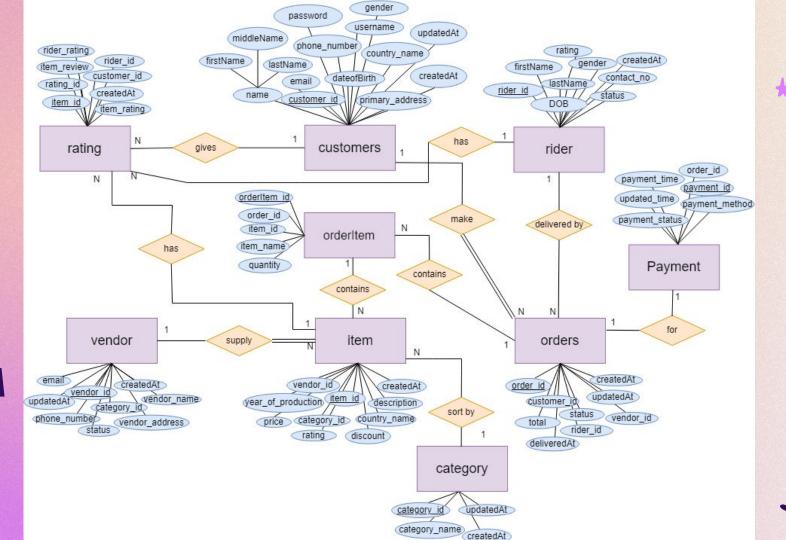
OrderItem:

- Top 5 orders with highest occurrence
- Search for specific order, the containing items and their quantities

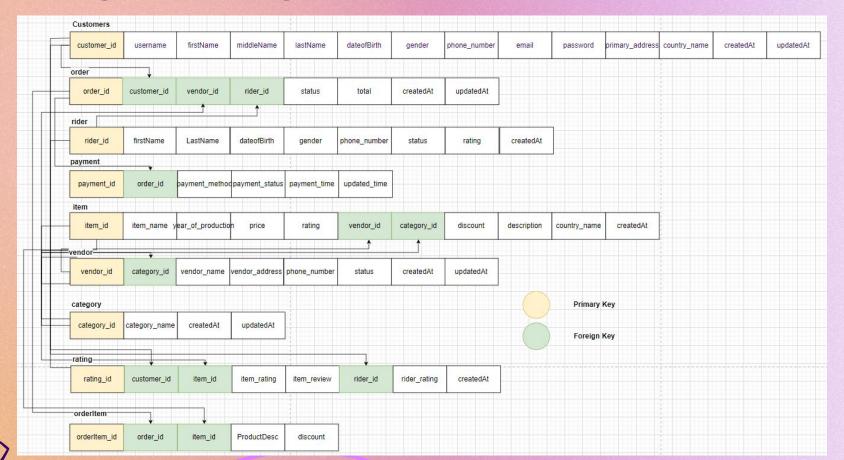
Category:

- Category name like 'Instruments'
- Vendors for specific category





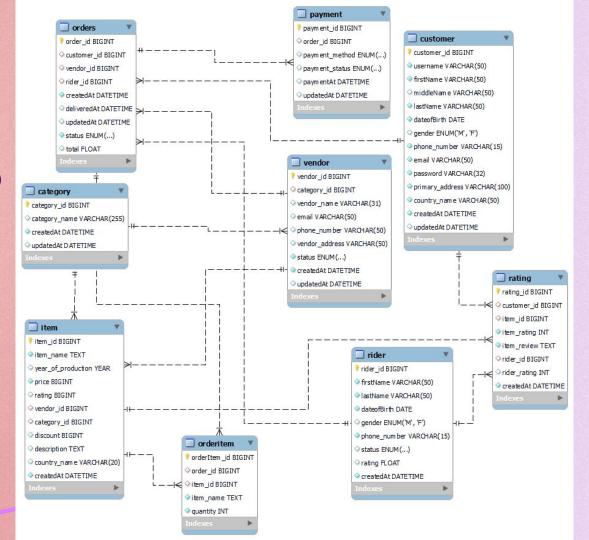
L'ogical diagram







Extended Entity Relationship Diagram





DATA DICTIONARY - CUSTOMER

# of Samples	ATTRIBUTES	DESCRIPTION	DATA TYPE	NOT NULL	UNIQUE	PK/ FK	FK REFERENCE
200	customer_id	Customer Identification Number	BIGINT	TRUE	TRUE	PK	
	username	Username of the customer	VARCHAR	TRUE	FALSE		
	firstName	First name	VARCHAR	TRUE	FALSE		
	middleName	Middle name	VARCHAR	FALSE	FALSE		
	lastName	Last name	VARCHAR	TRUE	FALSE		
	dateofBirth	Date of birth	DATE	TRUE	FALSE		
	gender	Gender	ENUM	FALSE	FALSE		
	phone_number	Phone number	VARCHAR	TRUE	FALSE		
	email	Email address	VARCHAR	TRUE	FALSE		
	password	Password	VARCHAR	TRUE	FALSE		
	primary_address	Primary Address of the customer	VARCHAR	TRUE	FALSE		
	country_name	Origin country of the customer	VARCHAR	TRUE	FALSE		
	createdAt	Date account created on	DATETIME	TRUE	FALSE		
	updatedAt	Date account last updated on	DATETIME	FALSE	FALSE		

DATA DICTIONARY - VENDOR

# of Samples	ATTRIBUTES	DESCRIPTION	DATA TYPE	NOT NULL	UNIQUE	PK/ FK	FK REFERENCE
15	vendor_id	Unique id for the vendor	BIGINT	TRUE	TRUE	PK	
	category_id	Unique id for the Category	BIGINT	TRUE	FALSE	FK	category
	vendor_name	Vendor identification name	VARCHAR	TRUE	FALSE		4
	vendor_address	Vendor address	VARCHAR	TRUE	FALSE		
	phone_number	Vendor phone number	VARCHAR	TRUE	FALSE		
	status	Status of vendor "Active" or "Inactive"	ENUM	FALSE	FALSE		
	createdAt	Date account created on	DATETIME	TRUE	FALSE		
	updatedAt	Date account updated on	DATETIME	FALSE	FALSE		





DATA DICTIONARY-ITEM

# of Samples	ATTRIBUTES	DESCRIPTION	DATA TYPE	NOT NULL	UNIQUE	PK/ FK	FK REFERENCE
30	item_id	Unique id for the item	BIGINT	TRUE	TRUE	PK	
	item_name	Customer ID from platform	TEXT	TRUE	FALSE		
	year_of _production	The year when item was manufactured	YEAR	FALSE	FALSE		
	price	Price of item	BIGINT	TRUE	FALSE		
	rating	Average rating from the customer of particular item	FLOAT	FALSE	FALSE		
	vendor_id	Vendor identification number	BIGINT	TRUE	FALSE	FK	VENDOR
	category_id	Category identification number	BIGINT	TRUE	FALSE	FK	CATEGORY
	discount	Discount percentage for the item	BIGINT	FALSE	FALSE		
	description	Item description and specification	TEXT	FALSE	FALSE		
	country_name	Origin country of the item	VARCHAR(20)	FALSE	FALSE		
	createdAt	Time when item have been added	DATETIME	FALSE	FALSE		



DATA DICTIONARY - ORDERS

# of Samples	ATTRIBUTES	DESCRIPTION	DATA TYPE	NOT NULL	UNIQUE	PK/ FK	FK REFERENCE
150	order_id	Unique order identification	BIGINT	TRUE	TRUE	PK	
	customer_id	Customer identification number	BIGINT	FALSE	FALSE	FK	customer
	vendor_id	Vendor identification number	BIGINT	FALSE	FALSE	FK	vendor
	rider_id	Rider identification number	BIGINT	FALSE	FALSE	FK	rider
	createdAt	Time order is created at	DATETIME	TRUE	FALSE		
	deliveredAt	Time order is delivered at	DATETIME	FALSE	FALSE		
	updatedAt	Time order is last updated	DATETIME	FALSE	FALSE		
	status	Received, In Progress, Delivered	ENUM	TRUE	FALSE		
	total	Sum calculation of the order	FLOAT	FALSE	FALSE		



ATRANSACTIONS/OPERATIONS

INSERT NEW CUSTOMER

```
insert into `customer`

insert into `customer`

values (160, 'mdanzig4f', 'Maisey', 'Prisk', 'Danzig',

'1950-03-29', 'F', '6694800577', 'mdanzig4f@earthlink.net',

'3NyCKF8', 'Khok Faet, Nong Chok, Bangkok, 10530',

'Thailand', '2020-07-27 15:03:02', '2020-07-28 17:56:28');

SELECT * FROM customer WHERE customer_id = 160;
```

	esult Grid 🎚	♦ Filter F	Rows:	1	Edit: 👍 🛚	Expo	ort/Import:	Wrap	Cell Content: 1A
	customer_id	username	firstName	middleName	lastName	dateofBirth	gender	phone_number	email
•	160	mdanzig4f	Maisey	Prisk	Danzig	1950-03-29	F	6694800577	mdanzig4f@earthlink.net
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	HULL	HULL

primary_address	country_name	createdAt	updatedAt
Khok Faet, Nong Chok, Bangkok, 10530	Thailand	2020-07-27 15:03:02	2020-07-28 17:56:28
NULL	NULL	NULL	NULL
	Khok Faet, Nong Chok, Bangkok, 10530	Khok Faet, Nong Chok, Bangkok, 10530 Thailand	Khok Faet, Nong Chok, Bangkok, 10530 Thailand 2020-07-27 15:03:02



Find & delete review with forbidden keyword



```
select * from rating
                                                                 # If safe mode is off
where item review like '%verybadword%' # Assume these are banned word
                                                                 delete from rating
or item review like '%swearword%'
                                                                 where item review like '%verybadword%' # Assume these are banned word
or item_review like '%superbadswearword%';
                                                                 or item review like '%swearword%'
# assume rating id 16 contain bad word
delete from item rating
                                                                 or item review like '%superbadswearword%';
where rating id = 151;
```

rating_id	item_id	customer_id	text	rating	createdAt
16	10	12	verybadword	1	2022-09-07 03:07:59
NULL	NULL	NULL	NULL	NULL	NULL



Customer Analysis - Gender distribution and their orders



```
-- Gender distribution of the customers --

SELECT

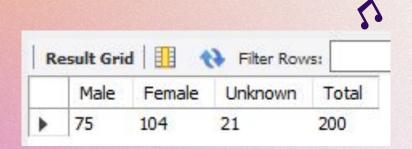
SUM(CASE WHEN gender = 'M' THEN 1 END) AS Male,

SUM(CASE WHEN gender = 'F' THEN 1 END) AS Female,

SUM(CASE WHEN gender IS NULL THEN 1 END) AS Unknown,

SUM(CASE WHEN gender IS NOT NULL THEN 1 ELSE 1 END) AS Total

FROM customer;
```



76	Customer orders based on gender
77 •	SELECT cu.gender, COUNT(*) as NoOfOrders
78	FROM customer cu INNER JOIN orders o
79	ON cu.customer_id = o.customer_id
80	GROUP BY cu.gender;

R	esult Grid	III 🙌 Filter
	gender	NoOfOrders
•	F	76
	M	64
	NULL	10

Customer Analysis - Age distribution

```
-- sorting the no of customers by age --

SELECT

(SELECT COUNT(customer_id) FROM customer WHERE TIMESTAMPDIFF(YEAR, dateofBirth, now()) < 20) as Teen,

(SELECT COUNT(customer_id) FROM customer WHERE TIMESTAMPDIFF(YEAR, dateofBirth, now()) BETWEEN 20 AND 39) as Adult,

(SELECT COUNT(customer_id) FROM customer WHERE TIMESTAMPDIFF(YEAR, dateofBirth, now()) BETWEEN 40 AND 59) as Middle_Aged,

(SELECT COUNT(customer_id) FROM customer WHERE TIMESTAMPDIFF(YEAR, dateofBirth, now()) > 59) as Senior;
```

R	esult Grid	ı <u>II</u>	N Filter Rows:	
	Teen	Adult	Middle_Aged	Senior
١	24	53	66	57

*Customer Analysis - Top 5 customer according to orders within past year

```
-- Top five customers who ordered most items within past year

SELECT cu.customer_id, CONCAT(cu.firstName,' ', COALESCE(cu.middleName, ' '),' ', cu.lastName)

AS Full_Name, cu.gender, cu.phone_number, cu.email, COUNT(*) AS NoOfOrders, cu.createdAt

FROM orders o INNER JOIN customer cu

ON o.customer_id = cu.customer_id

WHERE o.createdAt >= DATE(NOW() - INTERVAL 12 MONTH)

GROUP BY cu.customer_id

ORDER BY NoOfOrders DESC LIMIT 5;
```

IVE	sult Grid	Filter Rows:		Export:	Wrap Cell Content: TA Fetch rows:	***	1/2
	customer_id	Full_Name	gender	phone_number	email	NoOfOrders	createdAt
-	106	Gunner Spoerl	М	6635425106	gspoerl2x@diigo.com	3	2020-02-07 00:27:33
	84	Forest Onge	M	6669051096	fonge2b@usatoday.com	3	2020-03-16 15:47:02
	35	Carolus Flatt McGivena	HULL	6618118027	cmcgivenay@sohu.com	3	2020-12-07 07:57:49
	188	Neilla Obert Skippings	F	6638693258	nskippings57@comsenz.com	3	2022-02-15 11:57:27
	51	Desi Grimsdith	F	6695027494	dgrimsdith1e@scientificamerican.com	2	2020-10-19 05:55:42



Customer Analysis – List of customers with orders in progress

```
-- List of customers whose order are in progress

SELECT cu.customer_id, CONCAT(cu.firstName, ' ', COALESCE(cu.middleName, ' '), ' ', cu.lastName) AS FullName,

cu.gender, cu.phone_number, cu.email, o.order_id, o.status

FROM orders o INNER JOIN customer cu

ON o.customer_id = cu.customer_id

WHERE o.status = 'In Progress'

ORDER BY cu.customer_id;
```

	customer_id	FullName	gender	phone_number	email	order_id	status
•	1	Leodora McGeechan Clemenzo	F	6651236660	ldemenzo0@sphinn.com	55	In Progress
	14	Mariette Ferfulle Ferenc	F	6618064697	mferencd@rambler.ru	89	In Progress
	17	Morgan Filchakov	M	6669284103	mfilchakovg@usgs.gov	48	In Progress
	20	Cheslie Malenfant	M	6678301925	cmalenfantj@tiny.cc	69	In Progress
	21	Charlton Corzon	M	6617576589	ccorzonk@pen.io	37	In Progress
	22	Lidia Nowlan	F	6666790996	lonowlanl@tinyurl.com	108	In Progress
	34	Abraham Hanrahan	M	6659924844	ahanrahanx@yahoo.co.jp	101	In Progress
	35	Carolus Flatt McGivena	NULL	6618118027	cmcgivenay@sohu.com	140	In Progress
	45	Sada McMurray	F	6662036122	smcmurray18@sogou.com	38	In Progress
	47	Laird Pilling	М	6673069148	lpilling1a@friendfeed.com	46	In Progress
	51	Desi Grimsdith	F	6695027494	dgrimsdith 1e@scientifica	1	In Progress

Customer Analysis List of customers who have never ordered



```
-- List of customers who have never ordered --
SELECT cu.customer_id, CONCAT(cu.firstName,' ', cu.lastName)
    as CustomerName, cu.gender, cu.createdAt
FROM customer cu
LEFT JOIN orders o ON cu.customer_id = o.customer_id
WHERE o.customer_id IS NULL
ORDER BY cu.customer_id;
```

R	esult Grid 🎚	♦ Filter Rows:		Export: Wrap
	customer_id	CustomerName	gender	createdAt
•	2	Petrina Odeson	F	2020-06-06 00:50:32
	5	Kristi Schaumaker	F	2022-06-22 07:43:27
	7	Jemie Casol	NULL	2020-03-07 12:51:18
	9	Trix Corr	F	2021-11-12 06:23:27
	10	Agace Werrilow	NULL	2021-12-15 12:09:08
	1000000			

2021-06-08 02:51:54

Nels Hardistry

SELECT

ON cu.customer_id = o.customer_id

WHERE o.customer_id IS NULL ORDER BY cu.customer_id) AS NeverOrdered,

(SELECT COUNT(DISTINCT customer_id) FROM orders) AS Ordered;

	R	esult Grid	N Filter Rov		
		NeverOrdered	Ordered		
	١	97	103		



Category analysis Search with 'Instruments'

```
-- Category Analysis --
SELECT * FROM category
WHERE category_name LIKE '%Instruments';
```

R	esult Grid	N Filter Rows:	Export:	Wrap Cell Content:
	category_id	category_name	createdAt	updatedAt
•	3	Brass Instruments	2021-10-08 05:49:35	2022-06-02 03:17:20
	4	Percussion instruments	2021-12-10 15:31:54	2021-10-08 05:55:38
	5	Keyboard instruments	2023-03-18 13:49:59	HULL

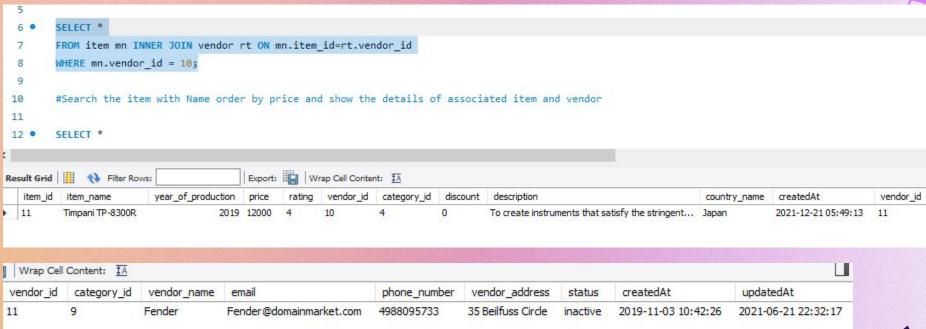


Category analysis - Vendors for specific category

```
-- Vendors selling items from category 9 --
SELECT * FROM vendor;
SELECT c.category_id, c.category_name,
v.vendor_id, v.vendor_name
FROM category c INNER JOIN vendor v
ON c.category_id = v.category_id
WHERE c.category_id = 9;
```

R	esult Grid	Filter Rows:		Export:
	category_id	category_name	vendor_id	vendor_name
•	9	Chordophones	1	Gibson
	9	Chordophones	11	Fender
	9	Chordophones	13	Pioneer DJ

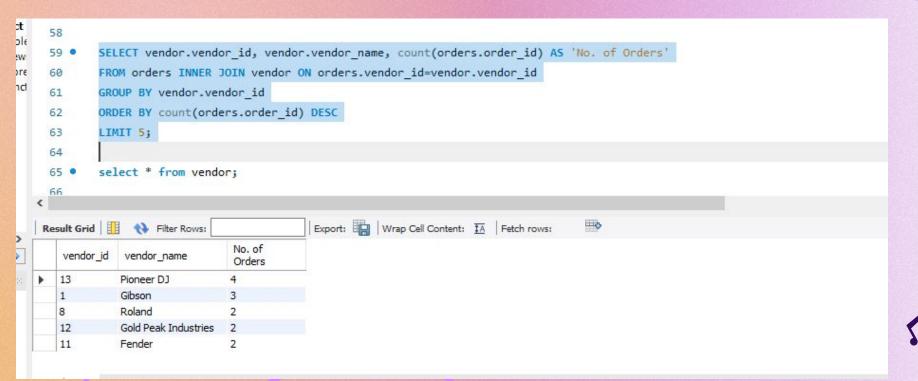
Vendor Analysis -Vendor information with category







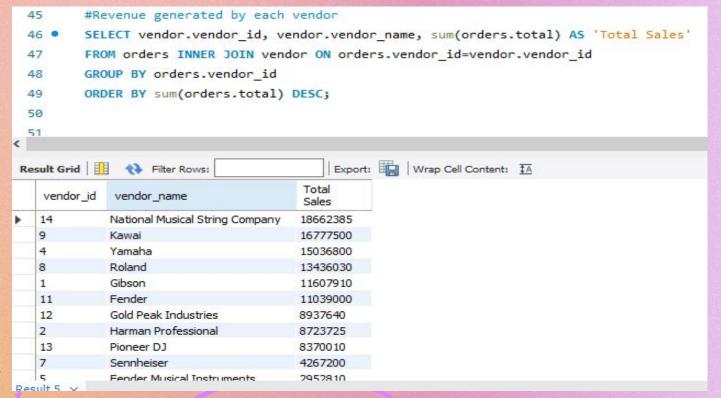
Vendor Analysis -List of Top 5 vendor with most order



Vendor Analysis -Vendor with maximum number of customer



Vendor Analysis -Revenue generated by each vendor







Vendor Analysis Top 5 vendor with highest revenue

```
37
        #Top 5 vendor with highest revenue.
38 •
        SELECT vendor.vendor id, vendor.vendor name, sum(orders.total) AS 'Total Sales'
        FROM orders INNER JOIN vendor ON orders.vendor id=vendor.vendor id
39
40
        GROUP BY vendor.vendor id
        ORDER BY sum(orders.total) DESC
41
        LIMIT 5;
42
43
44
45
        #Revenue generated by each vendor
                                                                                    4
Export: Wrap Cell Content: TA Fetch rows:
                                     Total
  vendor id
            vendor_name
                                     Sales
  14
           National Musical String Company
                                     18662385
  9
           Kawai
                                     16777500
           Yamaha
                                     15036800
           Roland
                                     13436030
           Gibson
                                     11607910
```







Update Order Total

order_id	customer_id	vendor_id	delivery_id	createdAt	deliveredAt	updatedAt	status	total
1	80	8	92	2021-08-16 14:24:31	2021-08-18 22:49:45	2021-08-25 05:49:45	Delivered	600000
2	94	75	27	2021-08-17 15:06:00	2021-08-18 19:19:43	2021-08-23 00:19:43	Delivered	3194800
3	8	19	74	2021-10-19 11:04:22	2021-10-21 21:28:05	2021-10-26 06:28:05	Delivered	47215
4	61	88	71	2020-03-20 17:05:52	2020-03-23 21:15:50	2020-03-28 02:15:50	Received	2767600
5	73	12	88	2021-07-16 17:40:03	2021-07-20 02:44:46	2021-07-25 04:44:46	Delivered	64000
6	143	9	31	2020-02-22 03:58:21	2020-02-25 05:14:42	NULL	In Progress	250000
7	80	99	54	2021-05-31 00:34:29	2021-06-02 10:38:14	2021-06-07 13:38:14	Delivered	30400





Update Item rating

```
update item i join
    (select item_id, avg(item_rating) as avgrating
    from rating r
    group by item_id
    ) r
    on i.item_id = r.item_id
    set i.rating = r.avgrating;
```



item_id	item_name	year_of_production	price	rating	vendor_id	category_id	discount	description	coun
1	Yamaha Guitar F-600	2018	5900	NULL	1	6	5	Martin X Series guitars are made for musicians t	Mexic
2	Yamaha Clavinova piano	2017	50000	NULL	7	5	0	The finest digital pianos that Yamaha makes, Cl	Japar
3	Yamaha DTX402K	2016	30000	NULL	8	4	0	The drumming that you saw on TV, and the dru	Japar
4	Yamaha YFL997CH	2020	20000	NULL	2	2	20	Inspired to start afresh, we went back to a clea	Japar
5	Steinway Musical Guitar	2015	900000	NULL	6	6	0	The new Steinway Musical Guitar returns to the \dots	USA

item_id	item_name	year_of_production	price	rating	vendor_id	category_id	discount	description	cou
1	Yamaha Guitar F-600	2018	5900	3.6	1	6	5	Martin X Series guitars are made for musicians t	Mex
2	Yamaha Clavinova piano	2017	50000	3	7	5	0	The finest digital pianos that Yamaha makes, Cl	Japa
3	Yamaha DTX402K	2016	30000	3.75	8	4	0	The drumming that you saw on TV, and the dru	Japa
4	Yamaha YFL997CH	2020	20000	4	2	2	20	Inspired to start afresh, we went back to a clea	Japa
5	Steinway Musical Guitar	2015	900000	4	6	6	0	The new Steinway Musical Guitar returns to the	USA



Update Rider rating

	rider_id	firstName	lastName	dateofBirth	gender	phone_number	status	rating	createdAt
	1	Adora	Simco	2003-09-25	F	6695335034	active	5	2020-08-11 23:15:36
	2	Lonnard	Lumsdaine	1995-01-31	M	6645657825	active	5	2020-12-09 11:37:33
	3	Bethina	Foucar	1989-06-17	F	6681104920	inactive	1	2020-07-06 17:25:32
	4	Tito	Guerrieri	1982-06-09	M	6607196307	active	NULL	2020-09-17 11:23:26
	5	Felike	Croux	1990-04-07	M	6605618156	active	NULL	2020-05-24 00:00:22
	6	Krispin	Pendergrast	2004-01-12	M	6603045628	inactive	NULL	2020-10-31 05:48:34
	7	Marchall	Beatty	1994-12-26	M	6653504083	active	2	2020-08-21 21:35:05
	8	Sargent	Aitken	1994-06-25	M	6668164384	active	NULL	2020-02-26 15:54:41
	9	Tommy	Matthensen	2001-06-02	F	6616544083	active	3	2020-04-01 03:11:25
	10	Jodie	Rickerd	1982-06-15	M	6678129785	active	3	2020-11-30 16:28:40
	11	Katrinka	Folger	1989-01-15	F	6622781523	active	4	2020-05-18 16:36:27





Item Analysis - Overview

```
# Item Analysis - Overview
select c.category_id, c.category_name, count(c.category_id) as total,
max(i.price) as maximum, min(i.price) as minimum, avg(i.rating) as average_rating
from category c left join item i
on i.category_id = c.category_id
group by c.category_id;
```

	category_id	category_name	total	maximum	minimum	average_rating
•	1	Bowed Strings	1	450000	450000	3
	2	WoodWind	2	100000	20000	3.350000023841858
	3	Brass Instruments	1	18000	18000	3
	4	Percussion instruments	5	300000	12000	3.15
	5	Keyboard instruments	2	50000	7000	2.75
	6	Guitar family	6	900000	1100	3.332133332888285
	7	Idiophones	5	80000	6000	3.0083399772644044
	8	Membranophones	3	55000	7000	3.349999984105428







OrderItem Analysis -Search for specific order_id

```
-- Search for specific order_id orderd by quantity --
SELECT * FROM orderItem
WHERE order_id = 77
ORDER BY quantity DESC;
```

	orderItem_id	order_id	item_id	item_name	quantity
١	87	77	7	Gold Peak American Performer Mustang Bass	4
	225	77	3	Yamaha DTX402K	4
	85	77	19	Clarinet d-C157	3
	241	77	24	Tuba TU158	2
	387	77	12	YVN500S Violin	1





Item Analysis - Top 5 item with highest rating

select * from item
where rating is not null
order by rating desc
limit 5;

item_id	item_name	year_of_production	price	rating	vendor_id	category_id	discount	description	country_name	creat /
15	Kawai PSR-F52	2015	12000	4.6667	9	10	0	The PSR-F52 is the perfect keyboard for people	Poland	2020-(
8	Rogers 5x14 Dyna-Sonic	2016	300000	4.5	15	4	10	THIS is the drum that "couldn't be built". This is	USA	2019-(
4	Yamaha YFL997CH	2020	20000	4	2	2	20	Inspired to start afresh, we went back to a dea	Japan	2021-(
5	Steinway Musical Guitar	2015	900000	4	6	6	0	The new Steinway Musical Guitar returns to the	USA	2020-(
20	Bassoon Ba-B157	2013	6000	4	5	6	10	basson as the name would suggest, the bass m	india	2020-(\





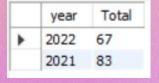
✓ Item Analysis - item categories by year

```
select
(select count(item_id) from project.item where (year(now()) - year_of_production) < 5) as New,
(select count(item_id) from project.item where (year(now()) - year_of_production) between 5 and 10) as Middle,
(select count(item_id) from project.item where (year(now()) - year_of_production) > 10) as Classic;
```

	New	Middle	Classic
•	4	24	2

✓Order Analysis - Sale separated by year

select year(createdAt) as year, count(order_id) as Total from orders
group by year;







Order Analysis – Ranking of busiest month in 2021

```
-- Busiest month of 2021 with the most amount of orders delivered --

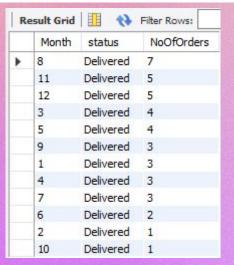
SELECT MONTH(createdAt) as Month, status, COUNT(order_id) AS NoOfOrders

FROM orders

WHERE status = 'Delivered' AND YEAR(createdAt) = 2021

GROUP BY EXTRACT(MONTH FROM createdAt)

ORDER BY NoOfOrders DESC;
```







Order Analysis List of paid orders currently in progress

```
-- List of paid orders currently in progress --
101
102 •
        SELECT o.order id, CONCAT(cu.firstName, '', cu.lastName) AS CustomerName,
        v.vendor name, CONCAT(r.firstName, ' ', r.lastName) AS RiderName, o.status
103
104
        FROM orders o
        INNER JOIN customer cu ON o.customer id = cu.customer id
105
106
        INNER JOIN vendor v ON o.vendor id = v.vendor id
107
        INNER JOIN rider r ON o.rider id = r.rider id
        INNER JOIN payment p ON o.order id = p.order id
108
        WHERE o.status = 'In Progress' AND p.payment status = 'Completed'
109
        ORDER BY o.order id;
110
```

	order_id	CustomerName	vendor_name	RiderName	status
•	6	Brendon Hallagan	Rogers Drums	Marylynne Eates	In Progress
	11	Tiffani Heinke	Kawai	Arin Jakeman	In Progress
	13	Malynda Gelderd	Gibson	Lanette Perfili	In Progress
	20	Alvin Laffranconi	Roland	Siana Simcoe	In Progress
	21	Audie Windus	Fender Musical Instruments	Ariana Burren	In Progress
	35	Hamil Finlayson	Pioneer DJ	Doralyn Fawdrey	In Progress
	37	Charlton Corzon	Rogers Drums	Anatol Hordell	In Progress
	38	Sada McMurray	Pioneer DJ	Muriel Lared	In Progress





Rating Analysis - Average rating

select customer_id, avg(item_rating) as AVGitemrating, avg(rider_rating) as AVGriderrating
from rating
group by customer_id
order by customer_id;

customer_id	AVGitemrating	AVGriderrating
1	4.0000	5.0000
2	4.3333	2.6667
3	5.0000	3.0000
4	1.0000	2.0000
7	3.5000	1.5000
8	3.3333	3.0000
10	2.0000	5.0000
12	5,0000	2.0000

4.0000

5.0000

2.7500

2.0000

3,0000

2,0000

15

17

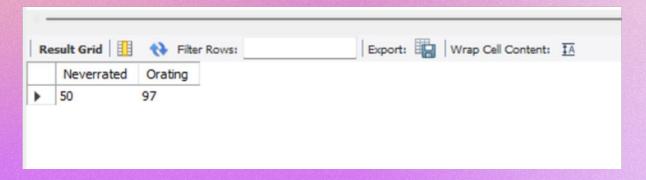




Rating analysis - Count of customers who have rated or not

```
# count of customes who have rating or not
SELECT

(SELECT COUNT(cu.customer_id) FROM customer cu LEFT JOIN rating o
ON cu.customer_id = o.rating_id
WHERE o.rating_id IS NULL ORDER BY cu.customer_id) AS Neverrated,
(SELECT COUNT(DISTINCT customer_id) FROM rating) AS Orating;
```



Rider Analysis – Top 5 active riders by rating for Nov

```
-- Top 5 active riders according to rating for November --
84
85 •
       SELECT r.rider id, CONCAT(r.firstName, ' ', r.lastName) as Full Name,
       r.dateofBirth, r.gender, r.status, r.rating
86
       FROM rider r INNER JOIN orders o
87
       ON r.rider id = o.rider id
88
       WHERE EXTRACT(MONTH FROM o.createdAt) = 11
89
       AND r.status = 'active'
90
       ORDER BY r.rating DESC LIMIT 5;
91
```

Re	esult Grid	Filter Row	51	E	xport:	Wra
	rider_id	Full_Name	dateofBirth	gender	status	rating
•	98	Towney McRitchie	1996-02-29	М	active	5
	35	Marylynne Eates	1986-05-08	NULL	active	3.7
	53	Perle Lanmeid	1988-02-22	F	active	3
	34	Odo Feely	1993-04-01	M	active	2
	50	Gabby Gerbi	1989-06-19	M	active	1





Payment Analysis Method payment and status summary

```
# Payment Analysis - Payment Summary
select payment_method as Method_Status, count(payment_id) as total from payment
group by payment_method
union
select payment_status, count(payment_status) from payment
group by payment_status;
```

Method_Status	total
COD	71
E-payment	79
Pending	52
Completed	98











SELECT payment_method, paymentAt FROM project.payment WHERE payment_method = 'E-payment' ORDER BY paymentAt DESC;

#	payment_method	paymentAt
1	E-payment	2022-09-12 08:53:06
2	E-payment	2022-08-27 18:38:55
3	E-payment	2022-08-18 11:53:43
4	E-payment	2022-08-17 13:06:15
5	E-payment	2022-07-29 00:36:04
6	E-payment	2022-07-28 00:53:10
7	E-payment	2022-06-29 03:19:06
8	E-payment	2022-06-28 18:09:10
9	E-payment	2022-06-26 12:15:46
10	E-payment	2022-06-25 02:56:28
11	E-payment	2022-06-11 01:53:12
12	E-payment	2022-06-04 04:45:08
13	E-payment	2022-05-26 09:25:30
14	E-payment	2022-05-20 08:57:04
15	E-payment	2022-05-18 04:29:18
16	E-payment	2022-05-10 05:47:39
17	E-payment	2022-05-08 08:17:37
18	E-payment	2022-05-07 22:09:51
19	E-payment	2022-05-01 19:09:51
20	E-payment	2022-05-01 07:19:28
21	E-payment	2022-04-28 15:43:36
22	E-payment	2022-04-26 02:05:20
23	E-payment	2022-04-13 04:57:30
24	E-payment	2022-02-27 02:01:14



SELECT payment_method, paymentAt FROM project.payment WHERE payment_method = 'COD' ORDER BY paymentAt DESC;

123.5		
#	payment_method	paymentAt
1	COD	2022-09-07 14:28:45
2	COD	2022-09-01 20:04:23
3	COD	2022-09-01 12:03:18
4	COD	2022-08-26 19:38:22
5	COD	2022-08-21 15:39:44
6	COD	2022-08-19 07:05:16
7	COD	2022-08-17 01:52:21
8	COD	2022-08-14 12:38:10
9	COD	2022-08-09 07:02:41
10	COD	2022-08-06 14:48:45
11	COD	2022-07-12 23:18:08
12	COD	2022-07-08 11:46:38
13	COD	2022-06-25 04:52:49
14	COD	2022-06-12 02:16:36
15	COD	2022-05-08 19:49:35
16	COD	2022-04-29 12:38:10
17	COD	2022-04-24 06:35:14
18	COD	2022-04-22 16:17:33
19	COD	2022-04-05 20:40:24
20	COD	2022-03-26 16:37:19
21	COD	2022-03-23 04:40:03
22	COD	2022-03-08 19:58:30
23	COD	2022-03-01 18:04:05
24	COD	2022-02-26 15:15:48
25	COD	2022-02-16 12:16:10
26	COD	2022-02-10 13:59:53
27	COD	2022-01-31 09:29:44
	200	



Payment Analysis -List of customers who pay by COD

SELECT CONCAT(ctm.firstName, ' ', ctm.lastName) as CustomerName, pm.payment method, pm.paymentAt, ctm.dateofBirth, ctm.phone number, ctm.email, ctm.primary address FROM payment pm

INNER JOIN customer ctm on pm.order id = ctm.customer id

WHERE pm.payment method = 'COD'

ORDER BY pm.paymentAt DESC;

2 Zachery Musk COD 2022-09-01 20:04:23 1952-01-09 6604458768 zmusky 3 Katharyn Lehrer COD 2022-09-01 12:03:18 1987-06-13 6693892677 klehrer 4 Kalli Pywell COD 2022-08-26 19:38:22 1990-08-20 6688685766 kpywell 5 Gabe Woodthorpe COD 2022-08-21 15:39:44 1976-02-03 6695499264 gwoodt 6 Elsi Nicholls COD 2022-08-19 07:05:16 1975-11-19 6637195447 enichol 7 Forest Onge COD 2022-08-19 07:05:16 1975-11-19 6637195447 enichol 8 Peggi Marham COD 2022-08-19 07:05:16 1975-11-19 6669051096 fonge2l 9 Coretta Czajka COD 2022-08-14 12:38:10 1984-12-13 6640578655 pmarha 9 Coretta Czajka COD 2022-08-09 07:02:41 1965-11-27 6604784746 cczajka 10 Hettie Burnie COD 2022-08-08 14:48:45 1994-08-07 6622301279							
2 Zachery Musk COD 2022-09-01 20:04:23 1952-01-09 6604458768 zmusky 3 Katharyn Lehrer COD 2022-09-01 12:03:18 1987-06-13 6693892677 klehrer 4 Kalli Pywell COD 2022-08-26 19:38:22 1990-08-20 6688685766 kpywell 5 Gabe Woodthorpe COD 2022-08-21 15:39:44 1976-02-03 6695499264 gwoodt 6 Elsi Nicholls COD 2022-08-19 07:05:16 1975-11-19 6637195447 enichol 7 Forest Onge COD 2022-08-19 07:05:16 1975-11-19 6637195447 enichol 8 Peggi Marham COD 2022-08-19 07:05:16 1975-11-19 6669051096 fonge2l 9 Coretta Czajka COD 2022-08-14 12:38:10 1984-12-13 6640578655 pmarha 9 Coretta Czajka COD 2022-08-09 07:02:41 1965-11-27 6604784746 cczajka 10 Hettie Burnie COD 2022-08-08 14:48:45 1994-08-07 6622301279	#	CustomerName	payment_method	paymentAt	dateofBirth	phone_numbe	email
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8 Peggi Marham COD 2022-08-14 12:38:10 1984-12-13 6640578655 pmarha 9 Coretta Czajka COD 2022-08-09 07:02:41 1965-11-27 6604784746 cczajka 10 Hettie Burnie COD 2022-08-06 14:48:45 1994-08-07 6622301279 hburnie 11 Ches Ridsdell COD 2022-07-12 23:18:08 1955-07-20 6667133553 cridsde 12 Auria Mapstone COD 2022-07-08 11:46:38 1958-10-27 6691549986 amapst 13 Nathanial Pouls COD 2022-06-25 04:52:49 1990-07-07 6671597463 npoulst 14 Louie Steet COD 2022-06-12 02:16:36 1974-01-13 6633649465 Isteeti@ 15 Florenza Studdard COD 2022-05-08 19:49:35 1996-06-03 6689084421 fstudda 16 Nanine Spanswick COD 2022-04-29 12:38:10 1950-03-13 6668727921 nspans 17 Patrizius Anders COD 2022-04-24 06:35:14 2001-01-29	6	Elsi Nicholls	COD	2022-08-19 07:05:16	1975-11-19	6637195447	enichol
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13 Nathanial Pouls COD 2022-06-25 04:52:49 1990-07-07 6671597463 npoulst npoulst 14 Louie Steet COD 2022-06-12 02:16:36 1974-01-13 6633649465 Isteeti@ lsteeti@ 15 Florenza Studdard COD 2022-05-08 19:49:35 1996-06-03 6689084421 fstuddand fstuddand 16 Nanine Spanswick COD 2022-04-29 12:38:10 1950-03-13 6668727921 nspans nspans 17 Patrizius Anders COD 2022-04-24 06:35:14 2001-01-29 6683308073 pander pander 18 Maressa Titcumb COD 2022-04-22 16:17:33 2009-03-28 6685269945 mtitcum mtitcum 19 Brendon Hallagan COD 2022-04-05 20:40:24 1964-06-14 6695351457 bohalla bohalla	11	Ches Ridsdell	COD	2022-07-12 23:18:08	1955-07-20	6667133553	cridsde
14 Louie Steet COD 2022-06-12 02:16:36 1974-01-13 6633649465 Isteeti@ 15 Florenza Studdard COD 2022-05-08 19:49:35 1996-06-03 6689084421 fstudda 16 Nanine Spanswick COD 2022-04-29 12:38:10 1950-03-13 6668727921 nspans 17 Patrizius Anders COD 2022-04-24 06:35:14 2001-01-29 6683308073 pander 18 Maressa Titcumb COD 2022-04-22 16:17:33 2009-03-28 6685269945 mtitcum 19 Brendon Hallagan COD 2022-04-05 20:40:24 1964-06-14 6695351457 bohalla	12	Auria Mapstone	COD	2022-07-08 11:46:38	1958-10-27	6691549986	amapst
15 Florenza Studdard COD 2022-05-08 19:49:35 1996-06-03 6689084421 fstudda fstudda 16 Nanine Spanswick COD 2022-04-29 12:38:10 1950-03-13 6668727921 nspans nspans 17 Patrizius Anders COD 2022-04-24 06:35:14 2001-01-29 6683308073 pander pander 18 Maressa Titcumb COD 2022-04-22 16:17:33 2009-03-28 6685269945 mtitcum mtitcum 19 Brendon Hallagan COD 2022-04-05 20:40:24 1964-06-14 6695351457 bohalla bohalla	13	Nathanial Pouls	COD	2022-06-25 04:52:49	1990-07-07	6671597463	npoulsu
16 Nanine Spanswick COD 2022-04-29 12:38:10 1950-03-13 6668727921 nspans nspans 17 Patrizius Anders COD 2022-04-24 06:35:14 2001-01-29 6683308073 pander pander 18 Maressa Titcumb COD 2022-04-22 16:17:33 2009-03-28 6685269945 mtitcum mtitcum 19 Brendon Hallagan COD 2022-04-05 20:40:24 1964-06-14 6695351457 bohalla bohalla	14	Louie Steet	COD	2022-06-12 02:16:36	1974-01-13	6633649465	Isteeti@
17 Patrizius Anders COD 2022-04-24 06:35:14 2001-01-29 6683308073 pander pander 18 Maressa Titcumb COD 2022-04-22 16:17:33 2009-03-28 6685269945 mtitcum mtitcum 19 Brendon Hallagan COD 2022-04-05 20:40:24 1964-06-14 6695351457 bohalla bohalla	15	Florenza Studdard	COD	2022-05-08 19:49:35	1996-06-03	6689084421	fstudda
18 Maressa Titcumb COD 2022-04-22 16:17:33 2009-03-28 6685269945 mtitcum 19 Brendon Hallagan COD 2022-04-05 20:40:24 1964-06-14 6695351457 bohalla	16	Nanine Spanswick	COD	2022-04-29 12:38:10	1950-03-13	6668727921	nspans
19 Brendon Hallagan COD 2022-04-05 20:40:24 1964-06-14 6695351457 bohalla	17	Patrizius Anders	COD	2022-04-24 06:35:14	2001-01-29	6683308073	panders
	18	Maressa Titcumb	COD	2022-04-22 16:17:33	2009-03-28	6685269945	mtitcum
20 Tilleni Uninka COD 2000 00 00 16:07:40 2000 41 17 6600620410 theiska	19	Brendon Hallagan	COD	2022-04-05 20:40:24	1964-06-14	6695351457	bohalla
	20	Tiffani Hainka	COD	2022 02 26 46-27-40	2004 44 47	6600630440	thaialea

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Canhan Cuna Canhan Cuna Danakak 10040

Payment Analysis List of customers who pay by E-payment

```
-- List of customers who pay by COD
```

SELECT CONCAT(ctm.firstName, ' ', ctm.lastName) as CustomerName, pm.payment_method, pm.paymentAt, ctm.dateofBirth, ctm.phone_number, ctm.email, ctm.primary_address
FROM payment pm

INNER JOIN customer ctm on pm.order_id = ctm.customer_id

WHERE pm.payment_method = 'E-payment'

ORDER BY pm.paymentAt DESC;

#	CustomerName	payment_method	paymentAt	dateofBirth	phone_numbe	email	primary_address
1	Jedediah Vivien	E-payment	2022-09-12 08:53:06	1989-06-18	6636848837	jvivien7@adobe.com	Sam Wa Tawan Tok, Khlong Sam Wa, Bang
2	Demetre Pasmore	E-payment	2022-08-27 18:38:55	1949-05-25	6654569645	dpasmore23@soundcl	Suriyawong, Bang Rak, Bangkok, 10500
3	Gerladina Ashbr	E-payment	2022-08-18 11:53:43	2004-08-03	6638862286	gashbrook1n@jimdo.com	Samae Dam, Bang Khun Thian, Bangkok, 1
4	Benedicto Dablin	E-payment	2022-08-17 13:06:15	1945-08-05	6613733699	bdablin3a@wundergro	Pak Khlong Phasi Charoen, Phasi Charoen,
5	Laird Pilling	E-payment	2022-07-29 00:36:04	2008-12-04	6673069148	lpilling1a@friendfeed.com	Wat Kanlaya, Thonburi, Bangkok, 10600
6	Martyn Seefeldt	E-payment	2022-07-28 00:53:10	1949-09-21	6644849219	mseefeldt40@chicagotr	Suan Luang, Suan Luang, Bangkok, 10250
7	Aloin Workes	E-payment	2022-06-29 03:19:06	1966-12-31	6679802209	aworkes2k@godaddy.c	Khlong Maha Nak, Pom Prap Sattru Phai, B

Payment Analysis List of customers completed payments

```
SELECT CONCAT(ctm.firstName, ' ', ctm.lastName) as CustomerName, pm.payment_status, pm.paymentAt
FROM payment pm
INNER JOIN customer ctm on pm.order_id = ctm.customer_id
WHERE pm.payment_status = 'Completed'
ORDER BY pm.paymentAt DESC;
```

#	CustomerName	payment_status	paymentAt
1	Jedediah Vivien	Completed	2022-09-12 08:53:06
2	Grady Menhenitt	Completed	2022-09-07 14:28:45
3	Zachery Musk	Completed	2022-09-01 20:04:23
4	Katharyn Lehrer	Completed	2022-09-01 12:03:18
5	Gabe Woodthorpe	Completed	2022-08-21 15:39:44
6	Elsi Nicholls	Completed	2022-08-19 07:05:16
7	Gerladina Ashbr	Completed	2022-08-18 11:53:43
8	Benedicto Dablin	Completed	2022-08-17 13:06:15
9	Hettie Burnie	Completed	2022-08-06 14:48:45
10	Laird Pilling	Completed	2022-07-29 00:36:04
11	Auria Mapstone	Completed	2022-07-08 11:46:38
12	Neel Arrighetti	Completed	2022-06-28 18:09:10
13	Louie Steet	Completed	2022-06-12 02:16:36
14	Dionysus Shear	Completed	2022-05-26 09:25:30
15	Zsa zsa Grimster	Completed	2022-05-20 08:57:04
16	Sandi Box	Completed	2022-05-18 04:29:18

Payment Analysis List of customers pending payments

```
SELECT CONCAT(ctm.firstName, ' ', ctm.lastName) as CustomerName, pm.payment_status, pm.paymentAt
FROM payment pm
INNER JOIN customer ctm on pm.order_id = ctm.customer_id
WHERE pm.payment_status = 'Pending'
ORDER BY pm.paymentAt DESC;
```

#	CustomerName	payment_status	paymentAt
1	Demetre Pasmore	Pending	2022-08-27 18:38:55
2	Kalli Pywell	Pending	2022-08-26 19:38:22
3	Forest Onge	Pending	2022-08-17 01:52:21
4	Peggi Marham	Pending	2022-08-14 12:38:10
5	Coretta Czajka	Pending	2022-08-09 07:02:41
6	Martyn Seefeldt	Pending	2022-07-28 00:53:10
7	Ches Ridsdell	Pending	2022-07-12 23:18:08
8	Aloin Workes	Pending	2022-06-29 03:19:06
9	Clarita Lardeur	Pending	2022-06-26 12:15:46
10	Nathanial Pouls	Pending	2022-06-25 04:52:49
11	Inna Hagger	Pending	2022-06-25 02:56:28
12	Malynda Gelderd	Pending	2022-06-11 01:53:12
13	Deanne Lung	Pending	2022-06-04 04:45:08
14	Nanine Spanswick	Pending	2022-04-29 12:38:10
15	Mariette Ferenc	Pending	2022-04-28 15:43:36
16	Patrizius Anders	Pending	2022-04-24 06:35:14



Payment Analysis The latest payment by COD

```
SELECT CONCAT(ctm.firstName, ' ', ctm.lastName) as CustomerName, pm.payment_method, pm.paymentAt
FROM payment pm
INNER JOIN customer ctm on pm.order_id = ctm.customer_id
WHERE pm.payment_method = 'COD'
ORDER BY pm.paymentAt DESC
LIMIT 1;
```

#	CustomerName	payment_method	paymentAt
1	Grady Menhenitt	COD	2022-09-07 14:28:45

Payment Analysis The latest payment by E-payment

```
SELECT CONCAT(ctm.firstName, ' ', ctm.lastName) as CustomerName, pm.payment_method, pm.paymentAt
FROM payment pm
INNER JOIN customer ctm on pm.order_id = ctm.customer_id
WHERE pm.payment_method = 'E-payment'
ORDER BY pm.paymentAt DESC
LIMIT 1;
```

#	CustomerName	payment_method	paymentAt
1	Jedediah Vivien	E-payment	2022-09-12 08:53:06



Item Analysis - No. of item segregated by rating



```
#No. of item segregated by rating
57
 58 •
       SELECT
59

⊖ (SELECT count(*) FROM (SELECT item.item_id FROM item
       WHERE item.rating<2.50 ) x) as 'Low Rated',
60
61

⊖ (SELECT count(*) FROM (SELECT item.item id FROM item)
      WHERE item.rating>=2.50 AND item.rating<=4.0 ) x) as 'AVG Rated',
62
     63
     WHERE item.rating>4.0 ) x) as 'High Rated';
64
65
66
Result Grid Filter Rows:
                                     Export: Wrap Cell Content: TA
                    High
  Low
           AVG
  Rated
           Rated
                    Rated
           11
                    17
```

Questions/ Comments?



Q/A - Query summarizing payment method, total price and amount

```
-- query summarizing payment methods, total amounts, total orders
SELECT p.payment_method, COUNT(o.order_id) AS TotalOrders,
SUM(o.total) as TotalPrice
FROM payment p INNER JOIN orders o
ON p.order_id = o.order_id
GROUP BY payment_method;
```

Re	esult Grid 🔠 🙌	Filter Rows:	
	payment_method	TotalOrders	TotalPrice
•	COD	71	61459730
	E-payment	79	72162500



Thank you!