

TEAM 5:

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HACKATHON - 1

SQL QUERIES

M1

```
SELECT
    s.seat_id,
    s.seat_number,
    sc.name
FROM Seat s
JOIN Screen sc ON s.screen_id = sc.screen_id
WHERE s.screen_id = 1;
```

!	seat_id	seat_number	name
1		A1	A
2		A2	A
3		A3	A
4		A4	A
5		A5	A
6		A6	A
7		A7	A
8		A8	A
9		A9	A
10		A10	A
11		A11	A
12		A12	A
13		A13	A
14		A14	A
15		A15	A

M2

```
select
    Movie.movie_id,
    Movie.title,
    count(Review.review_id) as review_count
from Movie
LEFT join Review on Movie.movie_id=Review.movie_id
GROUP by Movie.movie_id
```

!	movie_id	title	review_count
1		Avatar	79
2		Nine	38
3		Hard Luck	63
4		The Officers' Ward	21
5		You Are So Beautiful	78
6		It's Complicated	42
7		Sherlock Holmes	99
8		Crazy Heart	70
9		The Art of War II: Betrayal	50
10		The Last Station	73
11		Too Shy to Try	37
12		Alvin and the Chipmunks: The S...	58
13		Uncertainty	97
14		Guru	38
15		After Death	63

M3

```
select
FoodItem.item_id,
FoodItem.name,
FoodItemSize.rate
from FoodItem left join FoodItemSize on FoodItem.item_id=FoodItemSize.item_id
order by rate DEsc;
```

item_id	name	rate
15	Fiesta Nachos	19.74
20	Value Pizza	19.27
4	Golden Butter Popcorn	19.06
13	Savory Parmesan Popcorn	19.05
5	Spicy Inferno Burger	18.78
16	Earthy Herb Popcorn	18.68
9	Volcano Spicy Pizza	18.6
6	Cheesy Delight Pizza	18.54
12	Smoky BBQ Pizza	18.33
8	Meat Lover's Pizza	16.36
8	Meat Lover's Pizza	16.24
13	Savory Parmesan Popcorn	15.82
3	Caramel Crunch Popcorn	15.71
11	Cheddar Cheese Popcorn	15.68
17	Sweet & Salty Popcorn	15.34

M4

```
select genre,count(Movie.movie_id) as movie_count
from Movie
GROUP by genre
order by movie_count DEsc;
```

! item_id	name	rate
15	Fiesta Nachos	19.74
20	Value Pizza	19.27
4	Golden Butter Popcorn	19.06
13	Savory Parmesan Popcorn	19.05
5	Spicy Inferno Burger	18.78
16	Earthy Herb Popcorn	18.68
9	Volcano Spicy Pizza	18.6
6	Cheesy Delight Pizza	18.54
12	Smoky BBQ Pizza	18.33
8	Meat Lover's Pizza	16.36
8	Meat Lover's Pizza	16.24
13	Savory Parmesan Popcorn	15.82
3	Caramel Crunch Popcorn	15.71
11	Cheddar Cheese Popcorn	15.68
17	Sweet & Salty Popcorn	15.34

M5

```
select genre,count(Movie.movie_id) as movie_count
from Movie
GROUP by genre
order by movie_count DEsc;
```

! genre	movie_count
Comedy	108
Horror	101
Drama	99
Sci-Fi	98
Action	94

M6

SELECT

 Show.show_id,

 Show.show_datetime,

 COUNT(Ticket.ticket_id) AS total_tickets_sold

FROM Ticket

JOIN ShowSeat ON Ticket.show_seat_id = ShowSeat.show_seat_id

JOIN Show ON ShowSeat.show_id = Show.show_id

GROUP BY Show.show_id, Show.show_datetime

ORDER BY total_tickets_sold DESC;

show_id	show_datetime	total_tickets_sold
10	04-02-2025 21:55	147
15	09-02-2025 11:05	147
14	15-01-2025 12:40	139
9	12-01-2025 11:27	137
11	21-03-2025 06:57	137
16	09-03-2025 15:08	135
12	26-03-2025 18:52	133
13	15-03-2025 05:40	131
8	18-01-2025 21:09	117
5	21-02-2025 19:28	110
7	07-02-2025 18:44	103
6	23-01-2025 17:52	94

M7

```
SELECT
    User.user_id,
    User.name,
    SUM(Payment.transaction_amount) as total_spent
FROM User
JOIN Booking ON User.user_id = Booking.user_id
JOIN Payment ON Booking.booking_id = Payment.booking_id
GROUP BY User.user_id, User.name
ORDER BY total_spent DESC;
```

user_id	name	total_spent
3603	Thomas Jackson	4479.36
1470	Taylor Phillips	4461.41
4413	Jessica Wright	4310.59
4727	Kathleen Reyes	4243.1
3539	Terry Kramer	4225.95
4444	Nina Cox	4084.33
1869	John Harrell	4059.6
4652	Margaret Jimenez	4056.76
1567	Kathryn Stephens	4033.98
2424	Karen Jones	4024.46
366	Jimmy Stephens	4021.4900000000002
1577	Claudia Jackson	3999.02
3207	Brian Werner	3990.14
592	Jennifer Palmer	3945.64

M8

```
select show.show_datetime,  
count(Booking.booking_id) as total_bookings  
from Show  
left join Booking on Booking.show_id=Show.show_id  
GROUP by show_datetime  
order by total_bookings DESC;
```

! show_datetime	total_bookings
04-02-2025 21:55	1009
20-03-2025 05:48	974
09-03-2025 15:08	969
15-01-2025 12:40	958
07-02-2025 18:44	949
15-03-2025 05:40	946
26-03-2025 18:52	935
25-01-2025 06:38	935
09-02-2025 11:05	935
24-03-2025 06:57	930

M9

```
select show.show_id,  
       Movie.title,  
       Screen.name as screen_name,  
       show.show_datetime  
from Show  
left join Movie on Movie.movie_id=Show.movie_id  
LEFT join Screen on Screen.screen_id=Show.screen_id  
where show_datetime>DATETIME('now')  
order by show_datetime asc
```

!	show_id	title	screen_name	show_datetime
74		Growth	D	21-01-2025 00:52
151		A Town Called Panic	D	21-01-2025 00:53
48		Zone of the Dead	A	21-01-2025 01:47
297		Missionary Man	C	21-01-2025 03:49
188		Oceans	B	21-01-2025 04:33
275		The Seventh Veil	C	21-01-2025 13:35
242		Sometimes a Great No...	A	21-01-2025 21:15
5		Nine	A	21-02-2025 19:28
287		Invisible Stripes	D	21-02-2025 21:38
11		Yuki & Nina	C	21-03-2025 06:57
94		Joy Ride 2: Dead Ahead	B	21-03-2025 07:12
278		Kick-Ass	D	21-03-2025 20:09
189		Generation X	A	21-03-2025 23:11
17		Detention	D	22-01-2025 11:01

M10

```
select FoodItem.item_id,FoodItem.name,count(FoodItem.item_id) as total_orders
from FoodItem
left JOIN FoodOrderItem on FoodItem.item_id=FoodOrderItem.item_id
GROUP by FoodItem.item_id
order by total_orders desc
```

item_id	name	total_orders
6	Cheesy Delight Pizza	2341
13	Savory Parmesan Popcorn	2285
17	Sweet & Salty Popcorn	2285
9	Volcano Spicy Pizza	2271
10	Caramel Bliss Popcorn	2256
19	Supreme Veggie Pizza	2243
8	Meat Lovers Pizza	2242
1	Twilight Soda	2238
18	Vintage Cola	2231
20	Value Pizza	2224
16	Earthy Herb Popcorn	2213
4	Golden Butter Popcorn	2190
15	Fiesta Nachos	2187

M11

```
SELECT
    PointsTransaction.user_id,
    User.name,
    SUM(PointsTransaction.points_earned) AS current_points
FROM PointsTransaction
LEFT JOIN User ON PointsTransaction.user_id = User.user_id
GROUP BY name
HAVING current_points > 800
ORDER BY current_points DESC;
```

user_id	name	current_points
1966	Michael Johnson	1185
399	Mark Miller	1124
684	Lisa Smith	1072
121	William Brown	991
3219	James Williams	955
2152	David Miller	932
1987	Ashley Garcia	919
848	Joshua Johnson	908
2651	Michael Jones	906
2206	Michael Taylor	899
1107	David Johnson	879
1965	Daniel Green	867
1104	Amy Johnson	862
702	Jennifer Davis	810

C1

```
SELECT
    Screen.screen_id,
    Screen.name AS screen_name,
    SUM(Booking.total_cost) AS total_revenue,
    COUNT(Ticket.ticket_id) AS total_tickets_sold
FROM Ticket
JOIN Booking ON Ticket.booking_id = Booking.booking_id
JOIN Show ON Booking.show_id = Show.show_id
JOIN Screen ON Show.screen_id = Screen.screen_id
GROUP BY Screen.screen_id, Screen.name
ORDER BY total_revenue DESC;
```

screen_id	screen_name	total_revenue	total_tickets_sold
2	B	459610.99	836
3	C	319182.97	593
1	A	130773.12	243
4	D	101719.11	177

C2

```
SELECT
    Movie.movie_id,
    Movie.title,
    Show.show_datetime,
    SUM(Booking.total_cost) AS total_revenue
FROM Booking
JOIN Show ON Booking.show_id = Show.show_id
JOIN Movie ON Show.movie_id = Movie.movie_id
GROUP BY Movie.movie_id, Movie.title, Show.show_datetime
ORDER BY Show.show_datetime ASC, total_revenue DESC;
```

movie_id	title	show_datetime	total_revenue
314	Rockaway	04-02-2025 21:55	567382.46
5	You Are So Beautiful	07-02-2025 18:44	519501.78
457	White Mane	09-02-2025 11:05	502602.86
131	Quiet Chaos	09-03-2025 15:08	541626.35
28	Sweepers	12-01-2025 11:27	505858.21
434	About Elly	15-01-2025 12:40	525845.51

C3

```
SELECT
    User.user_id,
    User.name,
    COUNT(Booking.booking_id) AS total_bookings
FROM Booking
JOIN User ON Booking.user_id = User.user_id
GROUP BY User.user_id, User.name
ORDER BY total_bookings DESC;
```

user_id	name	total_bookings
10	Margaret Perez	5
11	Dominique Lee MD	5
12	David Mcneil	5
20	Sharon Flores	5
25	Martha Soto	5

C4

```
SELECT
    FoodItem.item_id,
    FoodItem.name,
    SUM(FoodOrderItem.quantity * FoodOrderItem.price_at_time) AS total_sales,
    COUNT(FoodOrderItem.order_id) AS total_orders
FROM FoodOrderItem
JOIN FoodItem ON FoodOrderItem.item_id = FoodItem.item_id
GROUP BY FoodItem.item_id, FoodItem.name
ORDER BY total_sales DESC;
```

item_id	name	total_sales	total_orders
6	Cheesy Delight Pizza	75000.02	2341
8	Meat Lover's Pizza	71741.7	2242
13	Savory Parmesan Popcorn	68198.23	2285
9	Volcano Spicy Pizza	66877.19	2271
16	Earthy Herb Popcorn	66684.97	2213
12	Smoky BBQ Pizza	58701.57	2100

C5

```
SELECT
    u.user_id,
    u.name,
    COALESCE(SUM(pt.points_earned), 0) AS total_points_earned
FROM User u
LEFT JOIN PointsTransaction pt ON u.user_id = pt.user_id
WHERE pt.transaction_datetime >= DATE('now', 'start of month', '-1 month')
    AND pt.transaction_datetime < DATE('now', 'start of month')
GROUP BY u.user_id, u.name
ORDER BY total_points_earned DESC;
```

user_id	name	total_points_earned
2973	Henry Reid	223
3386	Elizabeth Shaw	219
2248	Lawrence Bradley	211
4811	Robert Wheeler	204
2249	Brandi Johnson	202

BUSINESS INSIGHTS:

M1:

```
SELECT u.user_id, u.name, u.email
FROM user u
LEFT JOIN booking b ON u.user_id = b.user_id
WHERE b.user_id IS NULL;
```

user_id	name	email
5001	Gregory Morrison	vcampos306@icloud.com
5002	Luis Barajas	nicoleadams601@hotmail.com
5003	Christina Middleton	rogerphelps191@outlook.com
5004	Melissa Neal	smithtaylor863@outlook.com
5005	Haley Peters	isaacstephens169@outlook.com
5006	James Munoz	patricia09979@gmail.com
5007	Matthew Moore	garzaelijah634@gmail.com
5008	Tina Johnson	rebecca25166@hotmail.com
5009	Jose Pham	elliottlaura215@hotmail.com
5010	Daniel Dennis	sanchezchristopher125@hotmail.com
5011	Morgan Gregory	kimberlyhernandez580@outlook.com
5012	Christopher Lopez	mcooper489@yahoo.com
5013	Samantha Lewis	estradamichelle774@hotmail.com
5014	Valerie Mayer	haleaaron676@hotmail.com
5015	Mrs. Miranda Navarro	sharonkeith554@gmail.com
5016	Daniel Perez	matthewshepard954@hotmail.com

M2:

```
SELECT u.name, m.current_points
FROM user u
JOIN membership m ON u.user_id = m.user_id;
```

name	current_points
Zachary Adams	809
Shane Thomas	348
Alexa Zhang	143
Hayden Perez	639
Todd Fleming	897
Mitchell Gay	853
Lori Robinson	1
Joseph Cook	665
Paul Baxter	765
Margaret Perez	491
Dominique Lee MD	6
David Mcneil	198
Lori Myers	371
Leslie Perry	718
Sheri Burke	17
Natalie Trujillo	83

M3:

```
SELECT f.item_id, f.name, fs.size_name, fs.rate
FROM fooditem f
JOIN fooditemsize fs ON f.item_id = fs.item_id;
```

#	item_id	name	size_name	rate
1	1	Twilight Soda	Small	11.51
1	1	Twilight Soda	Medium	7.73
1	1	Twilight Soda	Large	9.97
2	2	Classic Chicken Burger	Small	13.38
2	2	Classic Chicken Burger	Medium	14.74
2	2	Classic Chicken Burger	Large	6.59
3	3	Caramel Crunch Popcorn	Small	15.71
3	3	Caramel Crunch Popcorn	Medium	9.21
3	3	Caramel Crunch Popcorn	Large	13.91
4	4	Golden Butter Popcorn	Small	6.89
4	4	Golden Butter Popcorn	Medium	11.15
4	4	Golden Butter Popcorn	Large	19.06
5	5	Spicy Inferno Burger	Small	9.31
5	5	Spicy Inferno Burger	Medium	18.78
5	5	Spicy Inferno Burger	Large	12.81
6	6	Cheesy Delight Pizza	Small	18.54

M4:

```
SELECT pg.name, COUNT(p.payment_id) AS usage_count
FROM payment p
JOIN paymentgateway pg ON p.gateway_id = pg.gateway_id
GROUP BY pg.name
ORDER BY usage_count DESC;
```

#	name	usage_count
1	Razorpay	5039
2	PayPal	5008
3	Stripe	4899

M5:

```
SELECT u.user_id, u.name, DATE(b.booking_datetime) AS booking_date, COUNT(*) AS  
booking_count  
FROM booking b  
JOIN user u ON b.user_id = u.user_id  
GROUP BY u.user_id, u.name, booking_date  
HAVING booking_count > 1;
```

user_id	name	booking_date	booking_count
2	Shane Thomas	2025-02-23	2
4	Hayden Perez	2025-03-02	2
11	Dominique Lee MD	2025-03-07	2
21	Amy Williams DVM	2025-02-17	2
27	Shane White	2025-03-10	2
28	Glenn Watson	2025-02-16	2
38	Jessica Lopez	2025-03-09	2
55	Kathryn Cabrera	2025-02-10	2
56	Rachel Harris	2025-03-02	2
64	Brian Blankenship	2025-02-13	2
69	Alexandra Bell	2025-03-07	2
73	Ashley Ford	2025-02-14	2
78	Nicholas Brown	2025-02-14	2
84	Christian Phelps	2025-03-09	2
127	Sharon Jones	2025-03-03	2
138	James Gibson	2025-02-18	2

M6:

```
SELECT strftime('%H', booking_datetime) AS booking_hour, COUNT(*) AS booking_count  
FROM booking  
GROUP BY booking_hour  
ORDER BY booking_count DESC;
```

booking_hour	booking_count
03	672
19	669
04	668
08	658
00	644
09	636
05	635
17	634
22	632
13	631
01	626
12	623
23	620
10	619
15	616
16	615

C1:

```
WITH first_bookings AS (  
    SELECT user_id, MIN(booking_datetime) AS first_booking_date  
    FROM booking  
    GROUP BY user_id  
)  
SELECT strftime('%Y-%m', first_booking_date) AS month, COUNT(user_id) AS new_users  
FROM first_bookings  
WHERE first_booking_date >= DATE('now', '-1 year')  
GROUP BY month  
ORDER BY month ASC;
```

month	new_users
2025-02	4375
2025-03	625

C2:

```
SELECT u.user_id, u.name, SUM(foi.quantity * foi.price_at_time) AS total_spent  
FROM foodorderitem foi  
JOIN foodorder fo ON foi.order_id = fo.order_id  
JOIN booking b ON fo.booking_id = b.booking_id  
JOIN user u ON b.user_id = u.user_id  
GROUP BY u.user_id, u.name  
ORDER BY total_spent DESC  
LIMIT 10;
```

user_id	name	total_spent
3452	Mr. Thomas Lopez DVM	837.34
2575	Eric Gonzalez	808.26
4046	Melissa Watson	791.01
2705	Dr. Kyle McLaughlin	774.82
4355	Laura Burke	774.75
4515	Kelly Baldwin	767.37
3923	Gabriel Clark	764.68
4658	Rodney Brown	759.52
1393	Melanie Cruz	755.02
1435	Michael Mendez	749.28