

Relational Algebra Query Results (Total 15)

Query 1: Full Names of Attendees who bought a "VIP" ticket for "Tech Summit"

Query: $\pi_{FirstName, LastName} (\sigma_{Type='VIP' \wedge EventName='TechSummit'} (Attendees \bowtie Tickets \bowtie Events))$

Table 1: Result 1: Attendees for VIP Tickets at Tech Summit

FirstName	LastName
Jose	Ramirez

Query 2: Names of Venues that hosted an event where the ticket payment method was "GCash"

Query: $\pi_{VenueName} (\sigma_{Method='GCash'} (Venues \bowtie Events \bowtie Tickets \bowtie Payments))$

Table 2: Result 2: Venues with GCash Payments

VenueName
CDO Convention Center
Limketkai Auditorium

Query 3: Contact Info of Individual Organizers who hosted an event with a Base Price of 500

Query: $\pi_{ContactInfo} (\sigma_{BasePrice=500} (IndividualOrganizers \bowtie Organizers \bowtie Events \bowtie TicketTypePricing))$

Table 3: Result 3: Contact Info of Individual Organizers (Price 500)

ContactInfo
917423431
9814739849

Query 4: Email of Attendees who bought a VIP Ticket for an Individual-Hosted Event

Query: $\pi_{Email} (\sigma_{BasePrice=1000} (Attendees \bowtie Tickets \bowtie TicketTypePricing \bowtie Events \bowtie IndividualOrganizers))$

Table 4: Result 4: Attendees' Email (VIP Ticket, Individual Host)

Email
jose@gmail.com

Query 5: Names of Venues with Capacity greater than 4000

Query: $\pi_{VenueName} (\sigma_{VenueCapacity > 4000} (Venues))$

Table 5: Result 5: Venues with Capacity \geq 4000

VenueName
Limketkai Auditorium

Query 6: Ticket IDs paid for with "Cash"

Query: $\pi_{TicketID} (\sigma_{Method='Cash'}(Payments))$

Table 6: Result 6: Tickets Paid with Cash

TicketID
3
4

Query 7: First and Last Names of Attendees whose email ends with 'gmail.com'

Query: $\pi_{FirstName, LastName} (\sigma_{Emaillike='%gmail.com'}(Attendees))$

Table 7: Result 7: Attendees with @gmail.com

FirstName	LastName
Jose	Ramirez
Rose	Ramirez
Levi	Lanyen
Gina	Lloyd

Query 8: Names and SSNs of Individual Organizers who hosted an event at the "Limketkai Mall"

Query: $\pi_{FirstName, LastName, SSN} (\sigma_{VenueName='LimketkaiMall'} (IndividualOrganizers \bowtie Organizers \bowtie Events \bowtie Venues))$

Table 8: Result 8: Individual Organizers at Limketkai Mall

FirstName	LastName	SSN
Kassandra	Liza	738-19-4592

Query 9: Date and Amount of payments made for "VIP" tickets

Query: $\pi_{PaymentDate, Amount} (\sigma_{Type='VIP'}(Payments \bowtie Tickets))$

Table 9: Result 9: VIP Ticket Payment Details

PaymentDate	Amount
2025-09-30	1000
2025-10-05	1000

Query 10: Names of Attendees who purchased a ticket with Extra Benefits

Query: $\pi_{FirstName, LastName} (\sigma_{ExtraBenefits=True} (Attendees \bowtie Tickets \bowtie TicketExtraBenefits))$

Table 10: Result 10: Attendees with Extra Benefits

FirstName	LastName
Jose	Ramirez
Gina	Lloyd

Query 11: Attendees who purchased an 'R' ticket OR an 'S' ticket (Union)

Query: $(\pi_{FirstName, LastName}(\sigma_{Type='R'}(Attendees \bowtie Tickets))) \cup (\pi_{FirstName, LastName}(\sigma_{Type='S'}(Attendees \bowtie Tickets)))$

Table 11: Result 11: Attendees with 'R' or 'S' Tickets

FirstName	LastName
Maria	Santos
Rose	Ramirez
Levi	Lanyen

Query 12: Event IDs for which both a VIP ticket AND a Regular ('R') ticket were sold (Intersection)

Query: $(\pi_{EventID}(\sigma_{Type='VIP'}(Tickets))) \cap (\pi_{EventID}(\sigma_{Type='R'}(Tickets)))$

Table 12: Result 12: Event IDs with Both VIP and R Tickets

EventID
1

Query 13: Names of Organizers who hosted events at ALL Venues with capacity ≥ 4000 (Division)

Query: $\pi_{Name}(Organizers \bowtie (\pi_{OrganizerID}(Events) \div \pi_{VenueID}(\sigma_{VenueCapacity \geq 4000}(Venues))))$

Table 13: Result 13: Organizers Hosting at ALL Large Venues

Name
<i>No matching rows</i>

Query 14: Names of Venues that hosted MORE THAN ONE event (Group By/Aggregation)

Query: $\pi_{VenueName}(\sigma_{CountEventID > 1}(\gamma_{VenueID, COUNT(EventID) \rightarrow CountEventID}(Events)) \bowtie Venues)$

Table 14: Result 14: Venues Hosting More Than One Event

VenueName
<i>No matching rows</i>

Query 15: Emails of Attendees who purchased a ticket type whose BasePrice is 500 or less

Query: $\pi_{Email}(\sigma_{BasePrice \leq 500}(Attendees \bowtie Tickets \bowtie TicketTypePricing))$

Table 15: Result 15: Attendees with Tickets ≤ 500

Email
maria@email.com
rose@gmail.com
levi@gmail.com