SQL QUERIES RESULTS

Two pgAdmin 4 screenshots showing SQL queries and results.

Query 1 (-- 2):

```sql
-- 2
  SELECT B.*
FROM Bookings as B
JOIN "User" as U ON B.UserId = U.UserId
WHERE U.DateOfBirth BETWEEN '1990-01-01' AND '2000-01-01';
```

Data Output:

	bookingid [PK] integer	userid integer	bookingtype character varying (255)	totalprice integer	bookingdatetime character varying (255)	policyid integer	hotelid integer	numberofrooms integer	flightno integer	numberoflighseats integer	busid character varying (255)	num integer
1	14	1043	Bus Booking	16000	2023-04-05 10:00:00	12	[null]	[null]	[null]	[null]	MH01AB1234	
2	15	1044	Tour Package	9000	2023-04-05 12:00:00	13	[null]	[null]	[null]	[null]	[null]	
3	17	1046	Hotel Booking	19000	2023-04-06 10:00:00	12	2	2	[null]	[null]	[null]	
4	20	1049	Car Rental	7200	2023-04-07 10:00:00	29	[null]	[null]	[null]	[null]	[null]	
5	21	1050	Hotel Booking	13500	2023-04-07 12:00:00	40	3	3	[null]	[null]	[null]	
6	23	1052	Tour Package	11500	2023-04-08 10:00:00	23	[null]	[null]	[null]	[null]	[null]	
7	25	1054	Hotel Booking	29000	2023-04-09 08:00:00	26	3	4	[null]	[null]	[null]	

Total rows: 14 of 14   Query complete 00:00:00.186

Query 2 (--3):

```sql
--3
SELECT FD.ClassType, AVG(FD.Fare) AS AvgFare
FROM FlightDetails FD
GROUP BY FD.ClassType;
```

Data Output:

	classtype character varying (255)	avgfare numeric
1	Premium Economy	2143.3962264150943396
2	Business Class	2367.2727272727272727
3	Economy	1810.9090909090909091
4	First Class	2932.7272727272727273

Total rows: 4 of 4   Query complete 00:00:00.200

Object Explorer   Dashboard   Properties   SQL   Statistics   Dependencies   Dependents   Processes   202201215/202201215@Kamal Akbari*

202201215/202201215@Kamal Akbari

Query   Query History

```
1654
1655
1656
1657
1658
1659
1660
1661   --4
1662
1663
1664   SELECT P.PackageId, COUNT(B.BookingId) AS TotalBookings
1665   FROM Packages P
1666   LEFT JOIN Bookings B ON P.PackageId = B.PackageId
1667   GROUP BY P.PackageId;
1668
1669
1670
1671
1672
1673
1674
1675
1676
```

Data Output   Messages

	packageid [PK] integer	totalbookings bigint
1	116	0
2	121	0
3	117	0
4	142	0
5	152	0
6	125	0
7	119	0
8	113	0
9	153	0
10	146	0
11	147	0
12	132	0
13	120	0
14	136	0
15	150	0
16	107	1

Total rows: 51 of 51   Query complete 00:00:00.302   Ln 1678, Col 1

Object Explorer   Dashboard   Properties   SQL   Statistics   Dependencies   Dependents   Processes   202201215/202201215@Kamal Akbari*

202201215/202201215@Kamal Akbari

Query   Query History

```
1670
1671
1672
1673
1674
1675
1676
1677
1678
1679
1680   --5
1681
1682
1683   SELECT H.HotelId, H."Name", AVG(R.Rating) AS AvgRating
1684   FROM Hotels as H
1685   JOIN Bookings as B ON H.HotelId = B.HotelId
1686   JOIN Review as R ON B.BookingId = R.BookingId
1687   GROUP BY H.HotelId, H."Name";
1688
1689
1690
1691
1692
```

Data Output   Messages

	hotelid [PK] integer	Name character varying (255)	avgrating numeric
1	4	Burj Al Arab	4.5000000000000000
2	6	JW Marriott Marquis Hotel Dubai	4.0000000000000000
3	2	Taj Exotica Resort & Spa	5.0000000000000000
4	3	W Goa	4.5000000000000000
5	1	The Leela Goa	4.0000000000000000

Total rows: 5 of 5   Query complete 00:00:00.169   Ln 1684, Col 15

First query (top screenshot):

```
--6
SELECT B.bookingid,B.bookingtype,R.rating
FROM Bookings as B
JOIN Review as R ON B.UserId = R.UserId ;
```

Data Output:

	bookingid integer	bookingtype character varying (255)	rating integer
1	13	Hotel Booking	5
2	14	Bus Booking	3
3	15	Tour Package	4
4	16	Car Rental	5
5	17	Hotel Booking	4
6	18	Bus Booking	5
7	19	Tour Package	3
8	20	Car Rental	4
9	21	Hotel Booking	5
10	22	Bus Booking	4
11	23	Tour Package	3
12	24	Car Rental	5
13	25	Hotel Booking	4
14	26	Flight Booking	5
15	27	Tour Package	3
16	28	Car Rental	4

Total rows: 27 of 27   Query complete 00:00:00.301   Ln 1710, Col 1

Second query (bottom screenshot):

```
--7
SELECT H."Location" as Destination, COUNT(B.BookingId) as TotalBookings
FROM Bookings as B
JOIN Hotels as H ON B.HotelId = H.HotelId
GROUP BY H."Location"
ORDER BY TotalBookings DESC
LIMIT 1;
```

Data Output:

	destination character varying (255)	totalbookings bigint
1	Goa, India	4

Total rows: 1 of 1   Query complete 00:00:00.100   Ln 1722, Col 1

Object Explorer

Dashboard   Properties   SQL   Statistics   Dependencies   Dependents   Processes   202201215/202201215@Kamal Akbari*

202201215/202201215@Kamal Akbari

Query   Query History

```
1723
1724
1725
1726
1727
1728
1729
1730
1731    --8
1732    SELECT book.flightClassType, SUM(book.NumberOfFlighSeats) as TotalSeatsBooked
1733    FROM Bookings as book
1734    WHERE book.flightno IS NOT NULL
1735    GROUP BY book.flightClassType;
1736
1737
1738
1739
1740
1741
1742
1743
1744
1745
```

Data Output   Messages

flightclasstype character varying (255)	totalseatsbooked bigint
1	Business Class	10
2	First Class	5

Total rows: 2 of 2   Query complete 00:00:00.085

Ln 1742, Col 1

Object Explorer

Dashboard   Properties   SQL   Statistics   Dependencies   Dependents   Processes   202201215/202201215@Kamal Akbari*

202201215/202201215@Kamal Akbari

Query   Query History

```
1740
1741
1742
1743
1744
1745
1746
1747    --9
1748
1749    SELECT CarRental.companyname, AVG(CarRental.PricePerKm) as AvgPricePerKm
1750    FROM CarRental
1751    GROUP BY CarRental.companyname;
1752
1753
1754
1755
1756
1757
1758
1759
1760
1761
1762
```

Data Output   Messages

companyname character varying (255)	avgpriceperkm numeric
1	Elite Rides	28.0000000000000000
2	Adventure Rentals	22.0000000000000000
3	LuxRides	25.0000000000000000
4	Zoom Car Rentals	15.0000000000000000
5	Green Wheels	17.0000000000000000
6	Family Rentals	18.0000000000000000
7	TopDown Rentals	30.0000000000000000
8	Rent-A-Car Inc.	12.0000000000000000
9	Speedy Wheels	35.0000000000000000
10	DriveMe Rentals	20.0000000000000000

Successfully run. Total query runtime: 132 msec. 10 rows affected.

Total rows: 10 of 10   Query complete 00:00:00.132

Ln 1753, Col 1

Dashboard Properties SQL Statistics Dependencies Dependents Processes 202201215/202201215@Kamal Akbari*

202201215/202201215@Kamal Akbari

Query Query History

```
1757
1758
1759
1760
1761
1762
1763    --10
1764
1765    SELECT H.HotelId, H."Name", SUM(B.TotalPrice) as TotalRevenue
1766    FROM Hotels as H
1767    JOIN Bookings as B ON H.HotelId = B.HotelId
1768    GROUP BY H.HotelId, H."Name"
1769    ORDER BY TotalRevenue DESC
1770    LIMIT 5;
1771
1772
1773
1774
1775
1776
1777
1778
1779
```

Data Output Messages

	hotelid [PK] integer	Name character varying (255)	totalrevenue bigint
1	4	Burj Al Arab	48000
2	3	W Goa	42500
3	1	The Leela Goa	28000
4	2	Taj Exotica Resort & Spa	19000
5	6	JW Marriott Marquis Hotel Dubai	18000

✓ Successfully run. Total query runtime: 110 msec. 5 rows affected. ✕

Total rows: 5 of 5   Query complete 00:00:00.110   Ln 1767, Col 17

```
1774
1775
1776
1777
1778
1779
1780    --11
1781
1782    SELECT H.StarRating, COUNT(B.BookingId) as TotalBookings
1783    FROM Hotels as H
1784    LEFT JOIN Bookings as B ON H.HotelId = B.HotelId
1785    GROUP BY H.StarRating;
1786
1787
1788
1789
1790
1791
1792
1793
1794
1795
1796
```

Data Output Messages

	starrating integer	totalbookings bigint
1	3	0
2	5	7
3	4	0

Total rows: 3 of 3   Query complete 00:00:00.106   Ln 1799, Col 1

```sql
--12
SELECT *
FROM Buses
WHERE StartingLocation = 'Chennai' AND FinalLocation =  'Kanchipuram';
```

Data Output   Messages

busid [PK] character varying (255)	buscompanyname character varying (255)	bustype character varying (255)	price integer	totalseats integer	startinglocation character varying (255)	finallocation character varying (255)	startingtime character varying (255)	endingtime character varying
1	TN56GH105106	Tamil Nadu Transport	AC Seater	1600	40	Chennai	Kanchipuram	08:00	12:00

Total rows: 1 of 1   Query complete 00:00:00.107   Ln 1813, Col 1

```sql
--13
SELECT HA.Amenities, COUNT(B.BookingId) AS TotalBookings
FROM HotelAmenities HA
JOIN HotelBook HB ON HA.HotelId = HB.HotelId
JOIN Bookings B ON HB.PackageId = B.PackageId
GROUP BY HA.Amenities;
```

Data Output   Messages

	amenities character varying (255)	totalbookings bigint
1	Desert Safari	1
2	Valet Parking	1
3	Fitness Center	1
4	Kids Club	1
5	Golf Course	1
6	Free Wi-Fi	1
7	Tennis Courts	1
8	Beach Access	1
9	Mountain Trekking	2
10	Spa	1
11	Game Room	1
12	Conference Facilities	1

Total rows: 12 of 12   Query complete 00:00:00.092   Ln 1814, Col 1

Query 14:

```
--14

select "Rooms".roomtype,min("Rooms".ratepernight)
from (hotels  natural join "Rooms" )
group by "Rooms".roomtype ;
```

Data Output | Messages

	roomtype character varying (255)	min integer
1	Classic	9500
2	Royal	14000
3	Mountain View	7000
4	Premium	11000
5	Family	9000
6	Safari Tent	7000
7	Standard	7500
8	Luxury Suite	14000
9	Single	7100
10	Double	8500
11	Lodge Room	8500
12	Ocean View	7000
13	Beachfront	10000
14	Superior	12000
15	Lake View	11000
16	River View	8500

Total rows: 27 of 27   Query complete 00:00:00.082   Ln 1858, Col 2

Query 15:

```
-- from (hotels  natural join "Rooms" )
-- group by "Rooms".roomtype ;




--15

select h."Name",count(ha.amenities)
from (hotels as h  natural join hotelamenities as ha )
group by h."Name" ;
```

Data Output | Messages

	Name character varying (255)	count bigint
1	The Savoy	1
2	Hotel Dark	1
3	Belmond Mount Nelson Hotel	2
4	Victoria Sapa Resort & Spa	3
5	Villa d Este	3
6	W Goa	2
7	The Little Nell	3
8	Hotel villa	2
9	St. Regis Aspen Resort	2
10	JW Marriott Marquis Hotel Dubai	1
11	The Leela Goa	2
12	Sofitel Sydney Darling Harbour	2
13	Hotel Voltaire	1
14	Grand Hotel Giessbach	1
15	Intercontinental Sydney	1
16	Four Seasons Resort Bali at Sayan	2

✓ Successfully run. Total query runtime: 126 msec. 74 rows affected. ✕

Total rows: 74 of 74   Query complete 00:00:00.126   Ln 1861, Col 1

Screenshot 1 — Query --16

```sql
--16
select ta.agencyname,count(pa.packageid)
from (travelagency as ta   natural join packages as pa )
group by ta.agencyname ;
```

Data Output:

	agencyname character varying (255)	count bigint
1	Travel Masters	1
2	Nature Lovers Travel	1
3	Wilderness Adventures	1
4	Island Getaways	1
5	Global Travelers	1
6	Elite Voyages	1
7	Luxury Retreats	1
8	Global Explorers	1
9	Eco-Adventures	3
10	Mountain Magic	1
11	Urban Voyages	1
12	Dream Destinations	3
13	Adventure Bound	2
14	City Explorers	1
15	Discovery Travel	1
16	Wanderlust Travels	1

Total rows: 28 of 28   Query complete 00:00:00.097   Ln 1878, Col 1

Screenshot 2 — Query --17

```sql
--17
select u.userid,u.firstname,u.lastname,sum(pa.amount),count(pa.amount)
from ("User" as u   natural join payment as pa )
group by u.userid,u.firstname,u.lastname;
```

Data Output:

	userid [PK] integer	firstname character varying (255)	lastname character varying (255)	sum bigint	count bigint
2	1048	Divya	Joshi	7200	1
3	1068	Preeti	Rani	7800	1
4	1041	Ajay	Kumar	28000	1
5	1056	Meera	Deshpande	4800	1
6	1043	Rahul	Gupta	9000	1
7	1063	Mukesh	Agarwal	9500	1
8	1058	Pooja	Mahajan	15000	1
9	1051	Anil	Patel	11500	1
10	1059	Vikram	Rathore	10500	1
11	1055	Akash	Verma	12000	1
12	1044	Priya	Patel	4000	1
13	1045	Amit	Singh	19000	1
14	1047	Akash	Shah	33000	1
15	1062	Swati	Mishra	13000	1
16	1049	Rohan	Chauhan	13500	1
17	1057	Arjun	Das	22000	1

Total rows: 28 of 28   Query complete 00:00:00.087   Ln 1900, Col 1

Screenshot 1 (top):

```
--18

select pa.packageid
from(hotelbook natural join flightsbook natural join carrentalbook natural join trainbook natural join packages as pa );
```

Data Output:

packageid [PK] integer

Total rows: 0 of 0   Query complete 00:00:00.126

Screenshot 2 (bottom):

```
--19

SELECT B.BusId, B.TotalSeats - COALESCE(SUM(NumberOfBusSeats), 0) AS TotalAvailableSeats
FROM Buses B
LEFT JOIN Bookings BK ON B.BusId = BK.BusId
GROUP BY B.BusId, B.TotalSeats;
```

Data Output:

	busid [PK] character varying (255)	totalavailableseats bigint
1	TN31IJ5556	35
2	KA37UV6768	35
3	RJ13YZ1920	40
4	KA11NT8712	40
5	TN56GH105106	40
6	RJ40AB7374	40
7	KL32KL5758	45
8	MH21OP3536	40
9	KA55EF103104	50
10	TN38WX6970	45
11	RJ58KL109110	35
12	RJ34OP6162	40
13	TG54CD101102	35
14	TG36ST6566	35
15	TG08OP6789	50
16	UP19KL3132	50

Total rows: 60 of 60   Query complete 00:00:00.136