lab6_DB

Screenshot 1

Query:
```
--1
SELECT * FROM flights
JOIN airline ON flights.airline_id=airline.airline_id
WHERE airline.airline_name='IVA';
```

Data Output (Showing rows: 1 to 19, Page No: 1 of 1)

	flight_id integer	flight_no character varying (50)	scheduled_departure date	scheduled_arrival date	departure_airport_id integer	arrival_airport_id integer	departing_gate character varying (50)	arriving_gate character varying (50)	airline_id integer
1	30	US-OR	2024-03-10	2023-07-14	6	14	214	285	1
2	119	MH-JAL	2023-12-06	2023-11-04	12	18	4	476	1
3	121	TW-TTT	2023-11-07	2023-03-31	3	12	28	443	1
4	149	PG-SAN	2024-01-03	2024-01-18	10	7	10	71	1
5	193	US-WA	2023-05-02	2023-10-16	1	7	144	772	1
6	404	MX-CHP	2023-04-14	2023-08-22	10	14	97	10	1
7	478	US-IL	2023-12-11	2023-07-09	17	15	672	397	1
8	505	BR-PR	2024-01-31	2023-09-30	9	4	3314	0	1
9	545	US-DC	2023-06-02	2023-10-08	12	2	312	1026	1
10	574	SS-18	2023-07-19	2023-08-26	4	4	1378	10	1
11	634	US-MI	2023-08-27	2023-09-17	18	16	606	8	1
12	658	CA-AB	2023-08-04	2024-02-07	6	13	3876	532	1
13	659	BR-PR	2023-07-24	2023-09-07	14	14	3494	13	1
14	791	PK-SD	2023-08-18	2023-05-12	2	5	100	1024	1
15	816	JP-27	2023-03-31	2023-07-11	2	16	50	946	1
16	845	PE-MDD	2024-03-17	2024-03-03	16	10	856	607	1

Total rows: 19   Query complete 00:00:00.047

Screenshot 2

Query:
```
--2
SELECT flights.flight_id,
    airline.airline_name,
    airport.airport_name AS departure_airport
FROM flights
JOIN airline ON flights.airline_id = airline.airline_id
JOIN airport ON flights.departure_airport_id = airport.airport_id;
```

Data Output (Showing rows: 1 to 1000, Page No: 1 of 1)

	flight_id integer	airline_name character varying (50)	departure_airport character varying (50)
1	1	GYA	Elorza Airport
2	2	SMM	Figari Sud-Corse Airport
3	3	SMM	Darchula Airport
4	4	BLD	Lime Acres Finsch Mine Airport
5	5	PIR	Hana Airport
6	6	SMM	Darchula Airport
7	7	SOZ	Ocean Falls Seaplane Base
8	8	KOQ	Figari Sud-Corse Airport
9	9	IFH	Hana Airport
10	10	NHT	Longana Airport
11	11	YBQ	Delta County Airport
12	12	KKL	Elorza Airport
13	13	IPC	Figari Sud-Corse Airport

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Please click here for more information.

Total rows: 1000   Query complete 00:00:00.068

Query 3:

```sql
--3
SELECT a.airline_name
FROM airline a
LEFT JOIN flights f ON a.airline_id = f.airline_id
    AND f.scheduled_departure BETWEEN CURRENT_DATE
    AND (CURRENT_DATE + INTERVAL '1 month')
WHERE f.flight_id IS NULL;
```

Data Output:

	airline_name character varying (50)
1	IPC
2	PDN
3	KLE
4	KHS
5	YLQ
6	NGL
7	0
8	QIG
9	NQX
10	SOZ
11	IVA
12	KOQ
13	IFH

Total rows: 50   Query complete 00:00:00.096

Query 4:

```sql
--4
SELECT p.first_name, p.last_name, p.passport_number
FROM passengers p
JOIN booking b ON p.passenger_id = b.passenger_id
JOIN booking_flight bf ON b.booking_id = bf.booking_id
JOIN flights f ON bf.flight_id = f.flight_id
WHERE f.flight_id = 20;
```

Data Output:

	first_name character varying (50)	last_name character varying (50)	passport_number character varying (50)
1	Milly	Lanmeid	669779308-2

Total rows: 1   Query complete 00:00:00.086

Query 5

```sql
--5
SELECT f.flight_id,
       AVG(b.price) AS average_price,
       SUM(b.price) AS total_price,
       MAX(b.price) AS highest_price,
       MIN(b.price) AS lowest_price
FROM flights f
JOIN booking b ON f.flight_id = b.passenger_id
GROUP BY f.flight_id;
```

Showing rows: 1 to 184   Page No: 1   of 1

flight_id [PK] integer	average_price numeric	total_price numeric	highest_price numeric	lowest_price numeric
87	3082.7200000000000000	6165.44	4619.25	1546.19
184	3708.2540000000000000	18541.27	9455.29	408.12
51	3525.4800000000000000	7050.96	6640.49	410.47
70	1858.6600000000000000	3717.32	2320.57	1396.75
176	8735.7000000000000000	8735.70	8735.70	8735.70
22	2503.3975000000000000	10013.59	4966.58	344.67
156	4508.5425000000000000	18034.17	6715.92	2082.95
173	6906.8900000000000000	13813.78	8309.60	5504.18
42	4796.7475000000000000	19186.99	6406.96	2436.11
189	4495.6900000000000000	8991.38	5638.87	3352.51
117	1570.8600000000000000	1570.86	1570.86	1570.86
161	8036.2800000000000000	8036.28	8036.28	8036.28

✓ Successfully run. Total query runtime: 62 msec. 184 rows affected. ✕

Total rows: 184   Query complete 00:00:00.062   CRLF   Ln 9, Col 22

Query 6

```sql
--6
SELECT f.flight_id,
       a.airline_name,
       dep.airport_name AS departure_airport,
       arr.airport_name AS arrival_airport
FROM Flights f
JOIN Airline a ON f.airline_id = a.airline_id
JOIN Airport dep ON f.departure_airport_id = dep.airport_id
JOIN Airport arr ON f.arrival_airport_id = arr.airport_id
WHERE arr.country = 'China'
```

Showing rows: 1 to 238   Page No: 1   of 1

flight_id integer	airline_name character varying (50)	departure_airport character varying (50)	arrival_airport character varying (50)
3	SMM	Darchula Airport	Elorza Airport
9	IFH	Hana Airport	Pitalito Airport
13	IPC	Figari Sud-Corse Airport	Melilla Airport
14	QIG	Darchula Airport	Lime Acres Finsch Mine Airp...
23	YLP	Alert Bay Airport	Lime Acres Finsch Mine Airp...
24	CSC	Lime Acres Finsch Mine Airport	Pitalito Airport
25	PQS	Ocean Falls Seaplane Base	Elorza Airport
34	DNU	Bermuda Dunes Airport	Lime Acres Finsch Mine Airp...
39	SJS	Elorza Airport	Elorza Airport
41	DUC	Alert Bay Airport	Pitalito Airport
45	RUG	Delta County Airport	Melilla Airport
47	NHT	Henri Coandă International Airp...	Melilla Airport

✓ Succe

Total rows: 238   Query complete 00:00:00.086   CRLF   Ln 1, Col 4

Query 7

```sql
--7
SELECT p.first_name, p.last_name,
        a.airport_name AS arrival_airport
FROM passengers p
JOIN booking b ON p.passenger_id = b.passenger_id
JOIN booking_flight bf ON b.booking_id = bf.booking_id
JOIN flights f ON bf.flight_id = f.flight_id
JOIN airport a ON f.arrival_airport_id = a.airport_id
WHERE AGE(CURRENT_DATE, p.date_of_birth) < INTERVAL '18 years';
```

	first_name character varying (50)	last_name character varying (50)	arrival_airport character varying (50)
1	Vivyan	Mallabone	Alert Bay Airport
2	Lester	Blades	Armidale Airport
3	Lester	Blades	Figari Sud-Corse Airport
4	Cleve	Edgeler	Industrial Airpark
5	Bradley	Grolle	Armidale Airport
6	Cleve	Edgeler	Fort Worth Alliance Airport
7	Gwennie	Chinnery	Elorza Airport
8	Cleve	Edgeler	Garbaharey Airport
9	Vivyan	Mallabone	Hana Airport
10	Bradley	Grolle	Lime Acres Finsch Mine Airp...
11	Vivyan	Mallabone	Elorza Airport
12	Ronnica	Laybourn	Hana Airport

Showing rows: 1 to 37   Page No: 1   of 1

✓ Successfully run. Total query runtime: 62 msec. 37 rows affected. ✕

Total rows: 37   Query complete 00:00:00.062

Query 8

```sql
--8
SELECT p.first_name || ' ' || p.last_name AS full_name,
        p.passport_number,
        f.scheduled_arrival AS arrival_time
FROM passengers p
JOIN booking b ON p.passenger_id = b.passenger_id
JOIN booking_flight bf ON b.booking_id = bf.booking_id
JOIN flights f ON bf.flight_id = f.flight_id;
```

	full_name text	passport_number character varying (50)	arrival_time date
1	Muhammad Fass	109932770-9	2023-10-18
2	Trevar Broun	788025864-7	2023-05-08
3	Auria Breffit	570537341-4	2023-11-03
4	Archie Toffel	677556708-1	2023-05-18
5	Sanders Biddles	514546405-3	2023-05-24
6	Sanders Biddles	514546405-3	2023-11-08
7	Remington Piggot	470074456-1	2023-06-28
8	Glynis Marle	209933120-0	2023-10-17
9	Cesaro McGennis	364900190-X	2023-08-22
10	Con Borrel	837859465-3	2024-01-23
11	Lorianna Robbie	435354132-3	2023-11-29
12	Brad Apperley	842288763-0	2023-04-05
13	Jennee Kamienski	120932446-6	2023-11-10

Showing rows: 1 to 1000   Page No: 1   of 1

Total rows: 1000   Query complete 00:00:00.094

File Object Tools Edit View Window Help

Object Explorer

```
--9
SELECT a.country AS airport_country,
       f.flight_id,
       ar.airline_name
FROM flights f
JOIN airline ar ON f.airline_id = ar.airline_id
JOIN airport a ON f.departure_airport_id = a.airport_id
WHERE ar.airline_country = a.country
GROUP BY a.country, f.flight_id, ar.airline_name;
```

Data Output   Messages   Notifications

	airport_country character varying (50)	flight_id integer	airline_name character varying (50)
1	Brazil	141	PDN
2	Brazil	333	RBR
3	Brazil	579	YLP
4	Brazil	783	YLP
5	Brazil	948	YLP
6	China	1	GYA
7	China	37	KIQ
8	China	39	SJS
9	China	48	JKR
10	China	69	GYA
11	China	88	SSL
12	China	132	SSL

Showing rows: 1 to 74   Page No: 1   of 1

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Total rows: 74   Query complete 00:00:00.055

CRLF   Ln 1, Col 4

Object Explorer tree:
- InternationalAirport
- Servers (2)
  - PostgreSQL 17
  - PostgreSQL 18
    - Databases (3)
      - airport_database
      - lab3
        - Casts
        - Catalogs
        - Event Triggers
        - Extensions
        - Foreign Data Wrappers
        - Languages
        - Publications
        - Schemas (1)
          - public
            - Aggregates
            - Collations
            - Domains
            - FTS Configurations
            - FTS Dictionaries
            - FTS Parsers
            - FTS Templates
            - Foreign Tables
            - Functions
            - Materialized Views
            - Operators
            - Procedures
            - Sequences
            - Tables (11)