

Laboratory work #4

The screenshot shows a database playground interface with two panels. The top panel displays a SQL query and its output. The bottom panel displays another SQL query and its output.

Top Panel:

- Query: `SELECT UPPER(airline_name) FROM airline;`
- Output: `UPPER(airline_name):text`
- Results:

upper
AIRASTANA
FLYARYSTAN
SCAT
TURKISH AIRLINES
QATAR AIRWAYS
AIRFRANCE
AMERICAN AIRLINES
AIREASY
FLYHIGH
FLYFLY
LONDONFLY

Bottom Panel:

- Query: `UPDATE airline SET airline_name = REPLACE(airline_name, 'Air', 'Aero');`
`UPDATE airline SET airline_name = REPLACE(airline_name, 'air', 'Aero');`
`SELECT airline_name FROM airline;`
- Output: `airport.public.airline`
- Results:

airline_name
Aeroastana
flyarystan
scat
turkish AeroLines
qatar Aeroaways
AeroFrance
american AeroLines
AeroEasy
FlyHigh
FlyFly
LondonFly

```
7 ✓ (SELECT id, airline_id FROM flight WHERE airline_id = 1)
8 UNION
9 (SELECT id, airline_id FROM flight WHERE airline_id = 2);
10
```

Output Result 54 ×



id	airline_id
3	2
4	1
6	1
8	2
17	2
21	1
25	2
35	2
47	1

```
11
12 ✓ SELECT airport_name FROM airport WHERE POSITION('reginal' IN airport_name) != 0 OR POSITION('air' IN airport_name) != 0;
13
```

Output airport.public.airport ×



airport_name
Dubai international airport


```
24 ✓ SELECT
25     id,
26     firstname,
27     EXTRACT('year' from now()) - EXTRACT('year' from birthdate) AS age,
28     CASE
29         WHEN (EXTRACT('year' from now()) - EXTRACT('year' from birthdate) BETWEEN 18 AND 35) THEN 'Young'
30         WHEN (EXTRACT('year' from now()) - EXTRACT('year' from birthdate) > 35) THEN 'Adult'
31     END AS age_group
32 FROM passenger;
```

Output Result 59

id	firstname	age	age_group
1	Aidos	35	Young
2	Aigerim	30	Young
3	John	37	Adult
4	Maria	33	Young
5	Kenji	40	Adult
6	Sofia	27	Young
7	Ali	34	Young
8	Charlotte	38	Adult
9	Hans	32	Young
10	Fatima	29	Young
11	David	46	Adult
12	Olga	42	Adult

✓

```
SELECT
  id,
  tickets_price,
  CASE
    WHEN tickets_price > 12000 THEN 'expensive'
    WHEN tickets_price BETWEEN 8000 AND 12000 THEN 'medium'
    WHEN tickets_price < 8000 THEN 'cheap'
  END AS category
FROM booking;
```

Output

Result 60

id

tickets_price

category

1

10629.00

medium

2

14937.00

expensive

3

6450.00

cheap

4

5613.00

cheap

5

14689.00

expensive

6

9410.00

medium

7

8685.00

medium

8

9730.00

medium

9

9545.00

medium

10

14312.00

expensive

11

6239.00

cheap

12

12996.00

expensive

13

5673.00

cheap

30 rows

44	✓	SELECT
45		airline_country,
46		COUNT(id) AS number_of_airlines
47		FROM airline
48		GROUP BY airline_country;
49		

Output	Result 61	×
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airline_country	number_of_airlines
France	2
Turkey	1
Qatar	1
Great Britain	1
USA	1
Kazakhstan	2
Russia	1
Brazil	1
Poland	1

50	✓	SELECT
51		id,
52		sch_arrival_time,
53		act_arrival_time,
54		FORMAT(
55		'Late for %s days and %s hours',
56		EXTRACT(DAY FROM (act_arrival_time - sch_arrival_time)),
57		EXTRACT(HOUR FROM (act_arrival_time - sch_arrival_time))
58) AS latency
59		FROM flight
60		WHERE act_arrival_time > sch_arrival_time;

Output	Result 62	×
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id	sch_arrival_time	act_arrival_time	latency
1	2022-06-15 04:23:56.000000	2022-06-15 07:23:56.000000	Late for 0 days and 3 hours
2	2024-09-04 19:18:48.000000	2024-09-04 23:18:48.000000	Late for 0 days and 4 hours
3	2022-09-13 23:37:49.000000	2022-09-14 04:37:49.000000	Late for 0 days and 5 hours
4	2022-04-12 12:30:29.000000	2022-04-12 13:30:29.000000	Late for 0 days and 1 hours
5	2022-07-18 21:45:35.000000	2022-07-19 01:45:35.000000	Late for 0 days and 4 hours
6	2023-10-25 04:52:33.000000	2023-10-25 07:52:33.000000	Late for 0 days and 3 hours
7	2022-09-07 01:53:05.000000	2022-09-07 06:53:05.000000	Late for 0 days and 5 hours
8	2020-06-13 04:02:05.000000	2020-06-13 08:02:05.000000	Late for 0 days and 4 hours
9	2020-03-19 22:37:39.000000	2020-03-19 23:37:39.000000	Late for 0 days and 1 hours
10	2020-01-03 12:19:30.000000	2020-01-03 14:19:30.000000	Late for 0 days and 2 hours
11	2022-11-07 19:03:46.000000	2022-11-07 23:03:46.000000	Late for 0 days and 4 hours