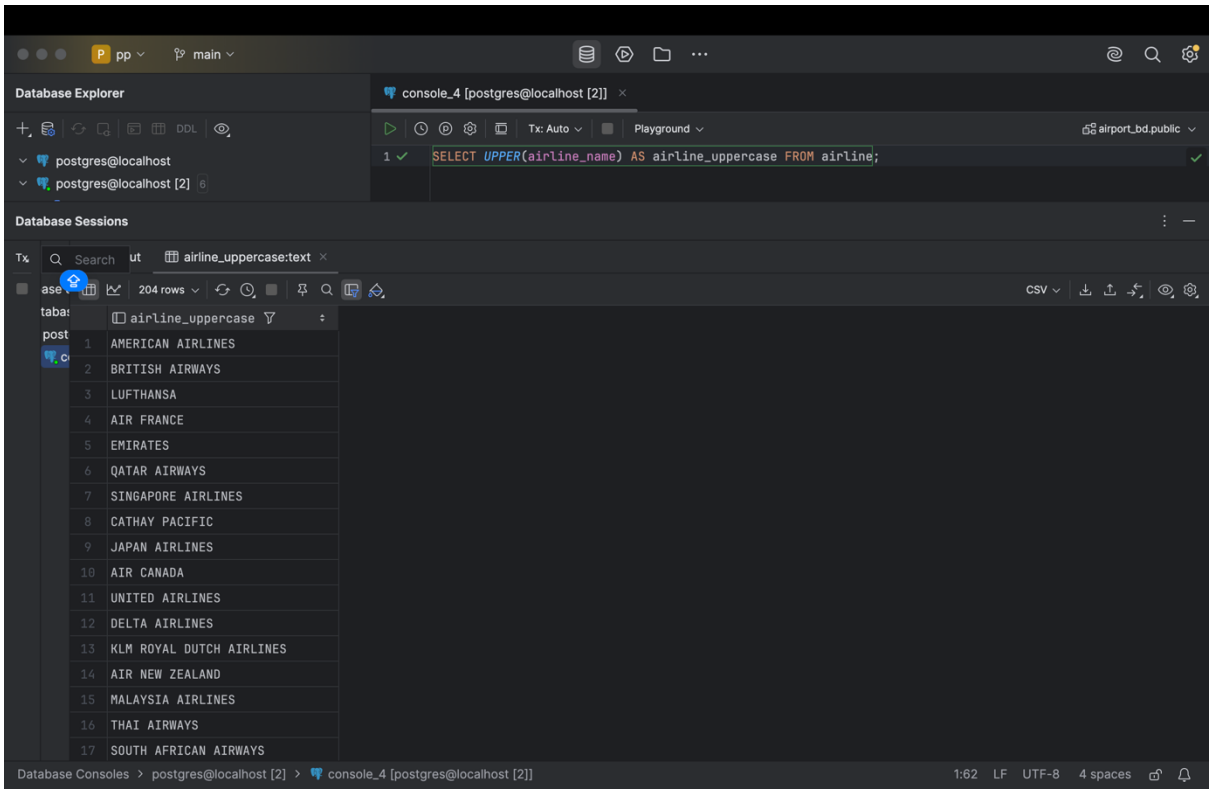
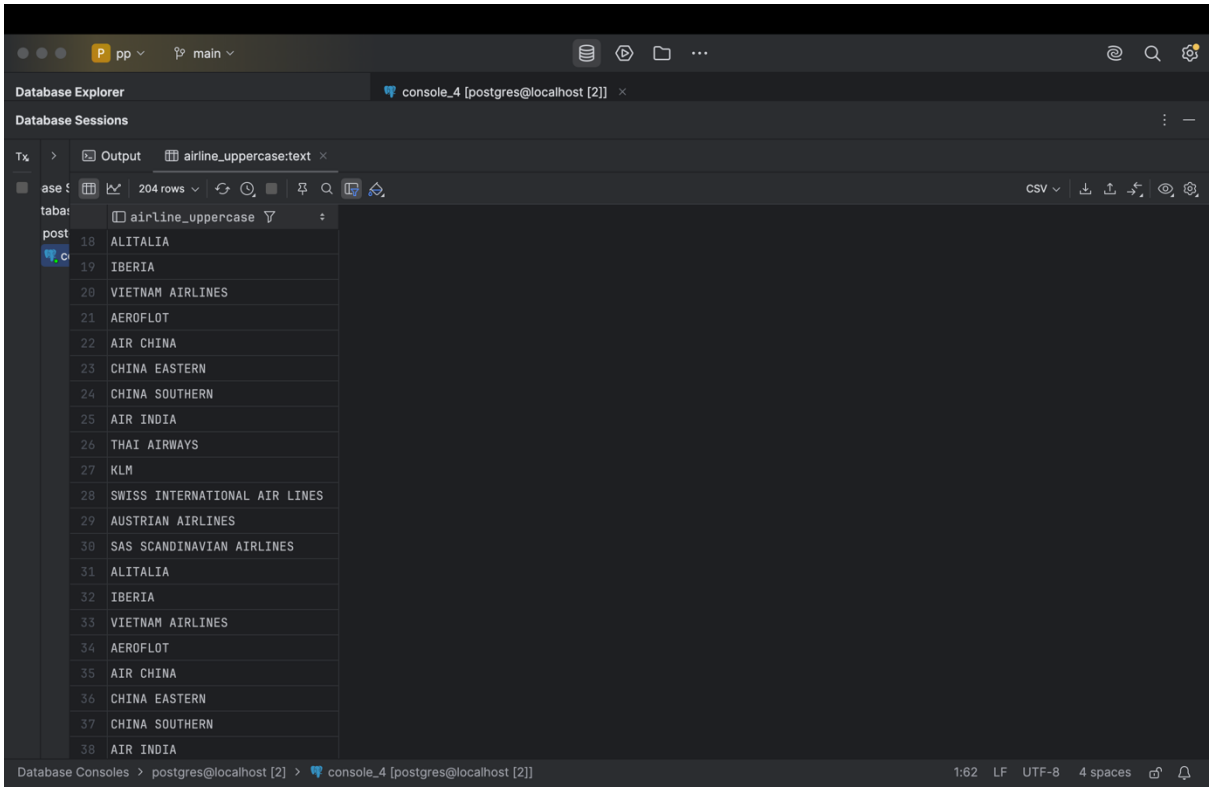
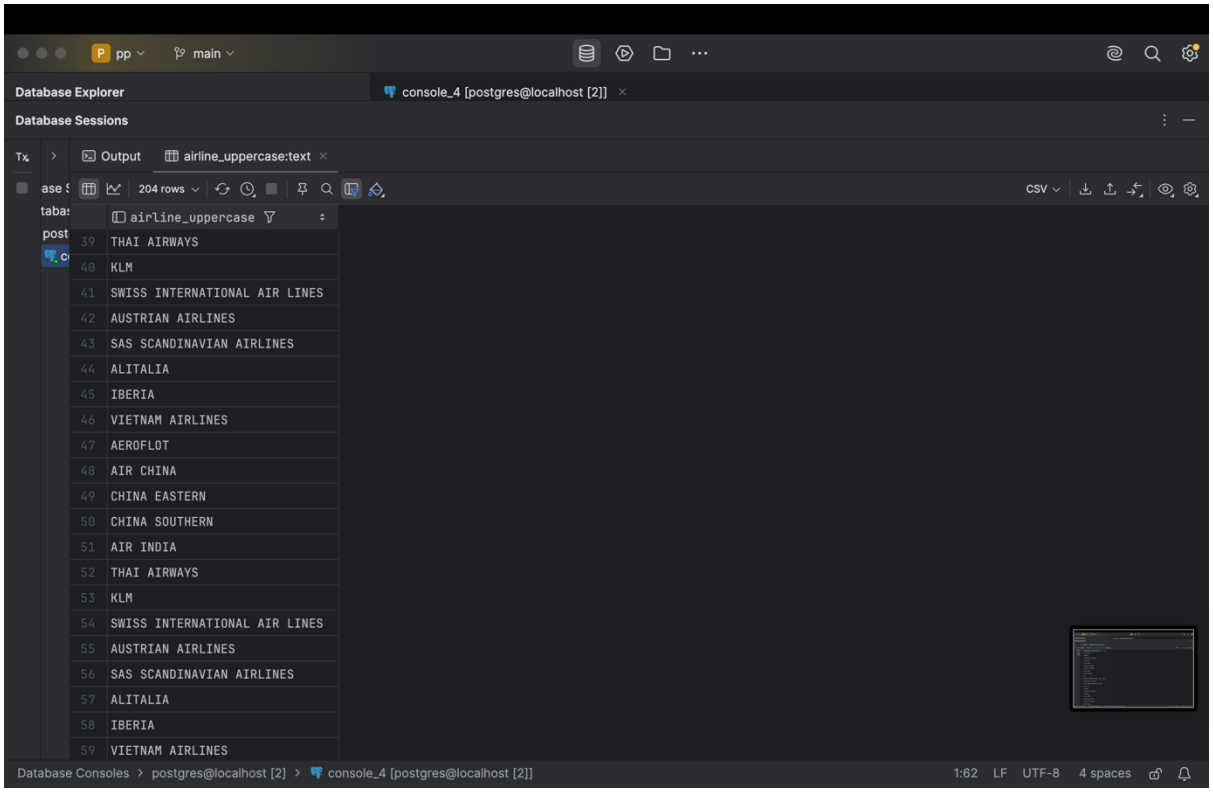
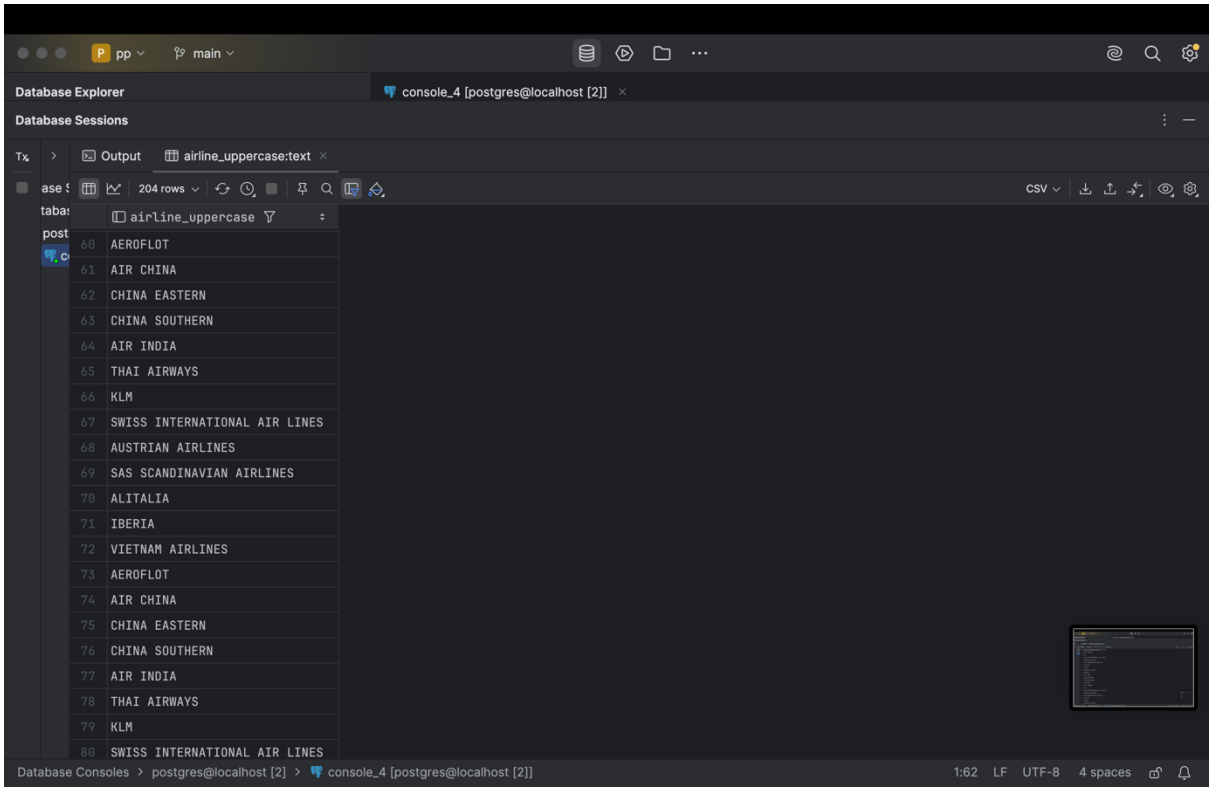
LAB 4

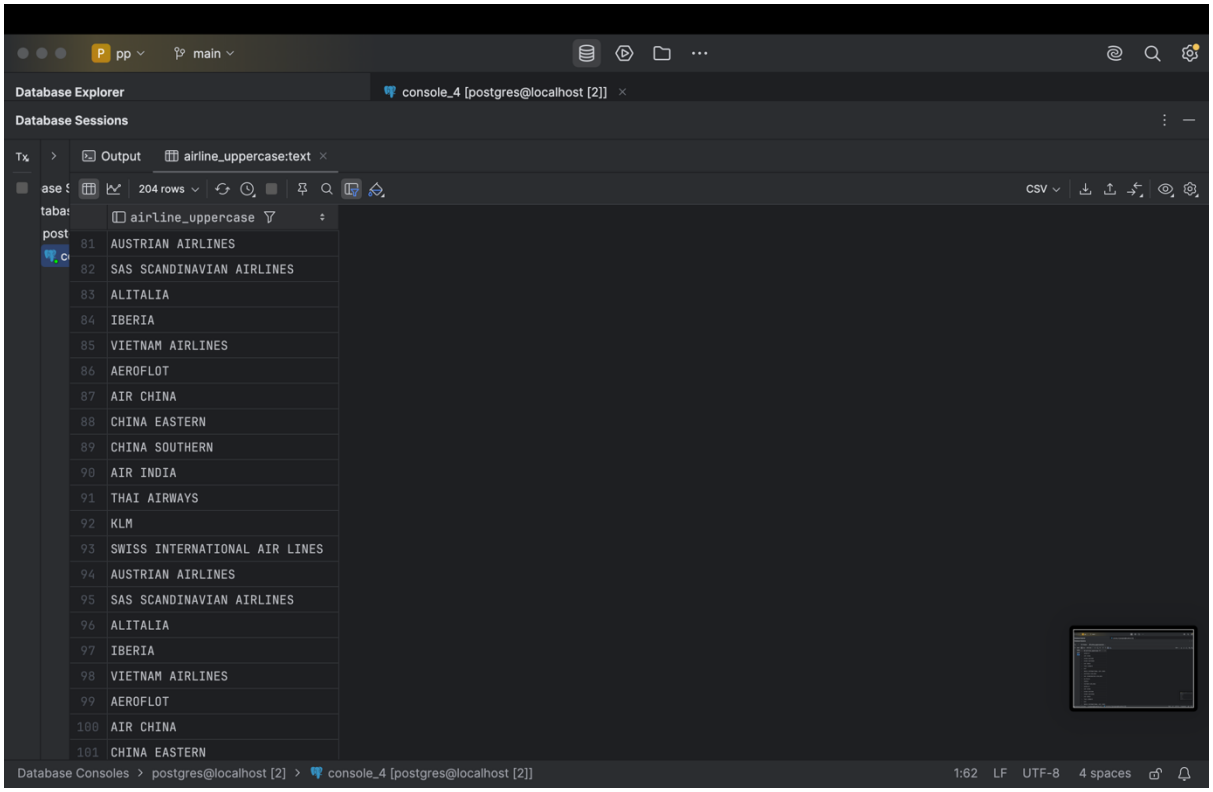
1. Retrieve all airline names in uppercase.

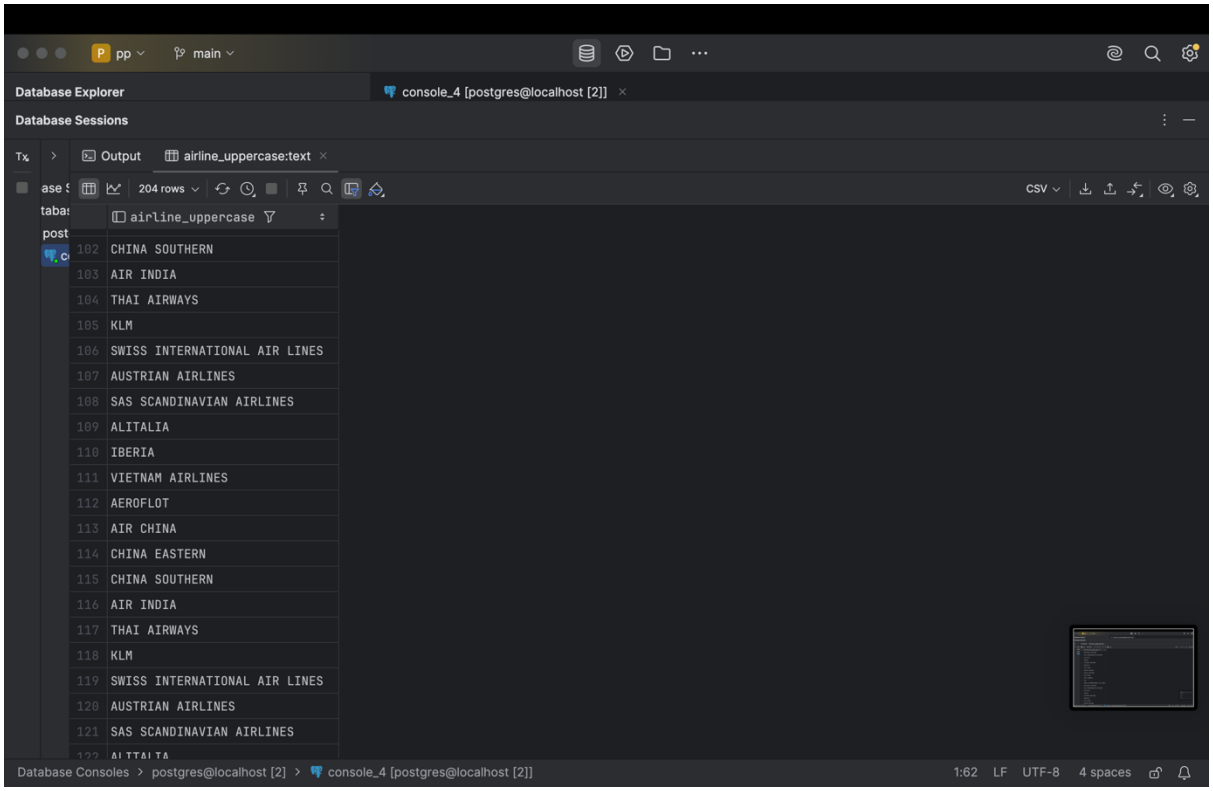


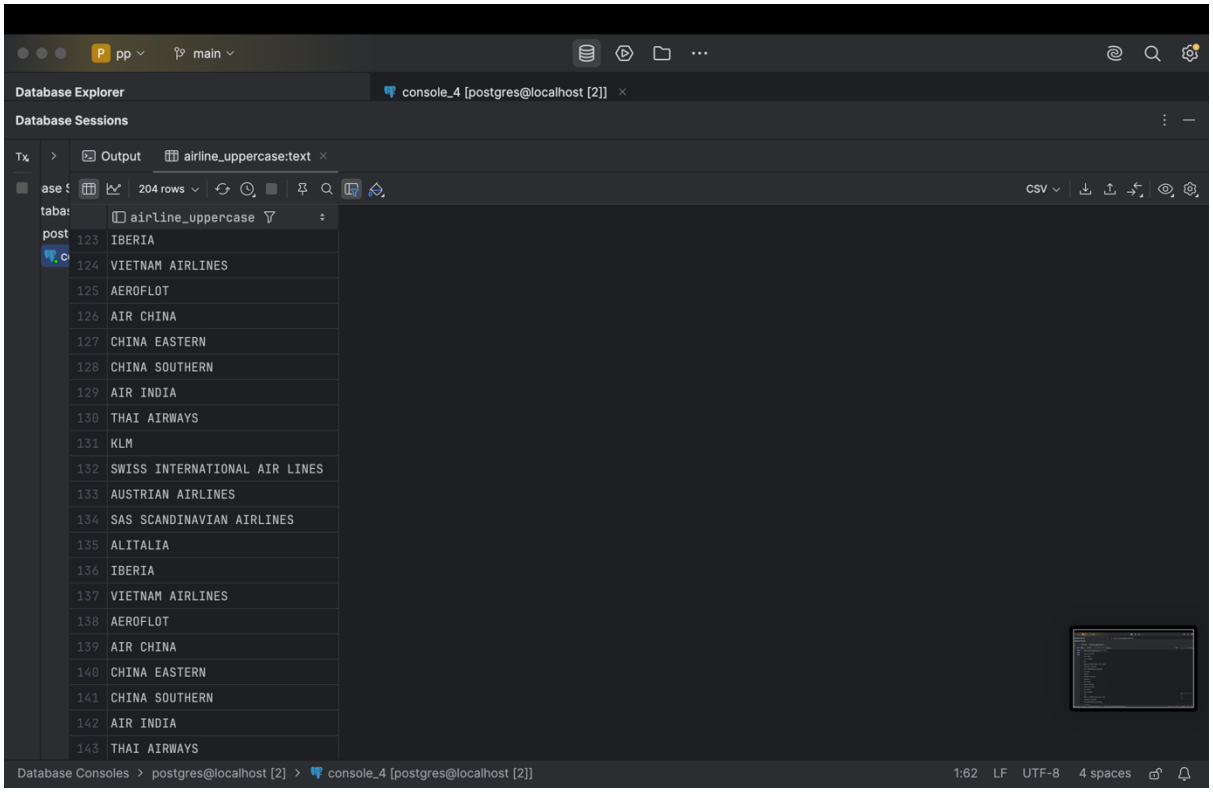

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
airline_uppercase:text
204 rows
CSV
airline_uppercase
18 ALITALIA
19 IBERIA
20 VIETNAM AIRLINES
21 AEROFLOT
22 AIR CHINA
23 CHINA EASTERN
24 CHINA SOUTHERN
25 AIR INDIA
26 THAI AIRWAYS
27 KLM
28 SWISS INTERNATIONAL AIR LINES
29 AUSTRIAN AIRLINES
30 SAS SCANDINAVIAN AIRLINES
31 ALITALIA
32 IBERIA
33 VIETNAM AIRLINES
34 AEROFLOT
35 AIR CHINA
36 CHINA EASTERN
37 CHINA SOUTHERN
38 AIR INDIA
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:62 LF UTF-8 4 spaces

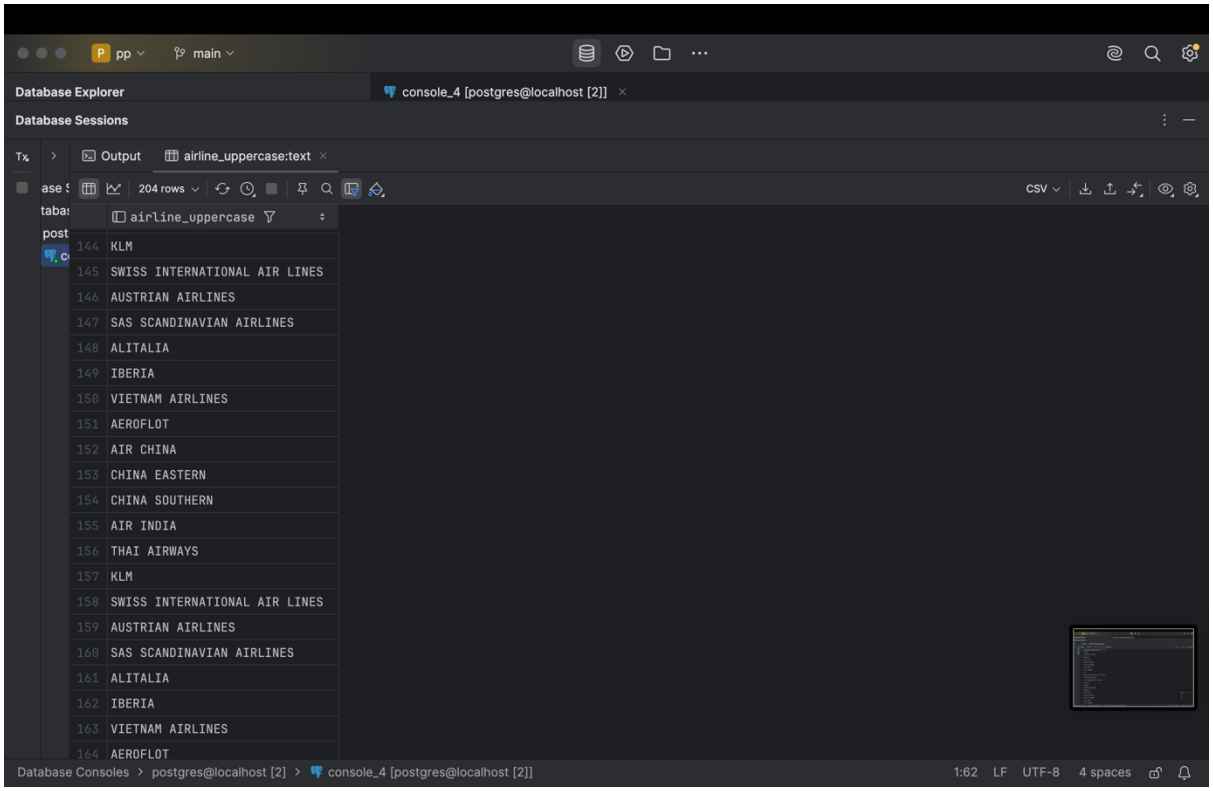

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
airline_uppercase:text
204 rows
CSV
airline_uppercase
39 THAI AIRWAYS
40 KLM
41 SWISS INTERNATIONAL AIR LINES
42 AUSTRIAN AIRLINES
43 SAS SCANDINAVIAN AIRLINES
44 ALITALIA
45 IBERIA
46 VIETNAM AIRLINES
47 AEROFLOT
48 AIR CHINA
49 CHINA EASTERN
50 CHINA SOUTHERN
51 AIR INDIA
52 THAI AIRWAYS
53 KLM
54 SWISS INTERNATIONAL AIR LINES
55 AUSTRIAN AIRLINES
56 SAS SCANDINAVIAN AIRLINES
57 ALITALIA
58 IBERIA
59 VIETNAM AIRLINES
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:62 LF UTF-8 4 spaces

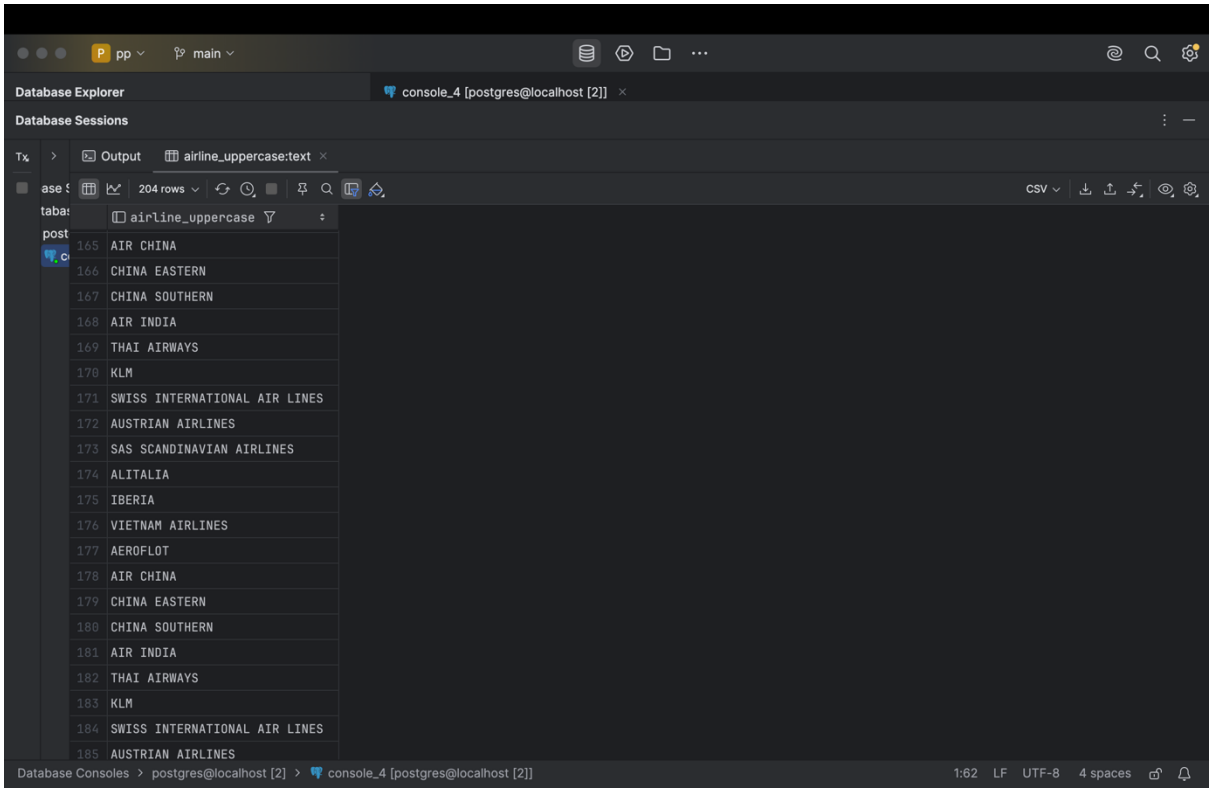

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
airline_uppercase:text
204 rows
CSV
airline_uppercase
60 AEROFLOT
61 AIR CHINA
62 CHINA EASTERN
63 CHINA SOUTHERN
64 AIR INDIA
65 THAI AIRWAYS
66 KLM
67 SWISS INTERNATIONAL AIR LINES
68 AUSTRIAN AIRLINES
69 SAS SCANDINAVIAN AIRLINES
70 ALITALIA
71 IBERIA
72 VIETNAM AIRLINES
73 AEROFLOT
74 AIR CHINA
75 CHINA EASTERN
76 CHINA SOUTHERN
77 AIR INDIA
78 THAI AIRWAYS
79 KLM
80 SWISS INTERNATIONAL AIR LINES
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:62 LF UTF-8 4 spaces

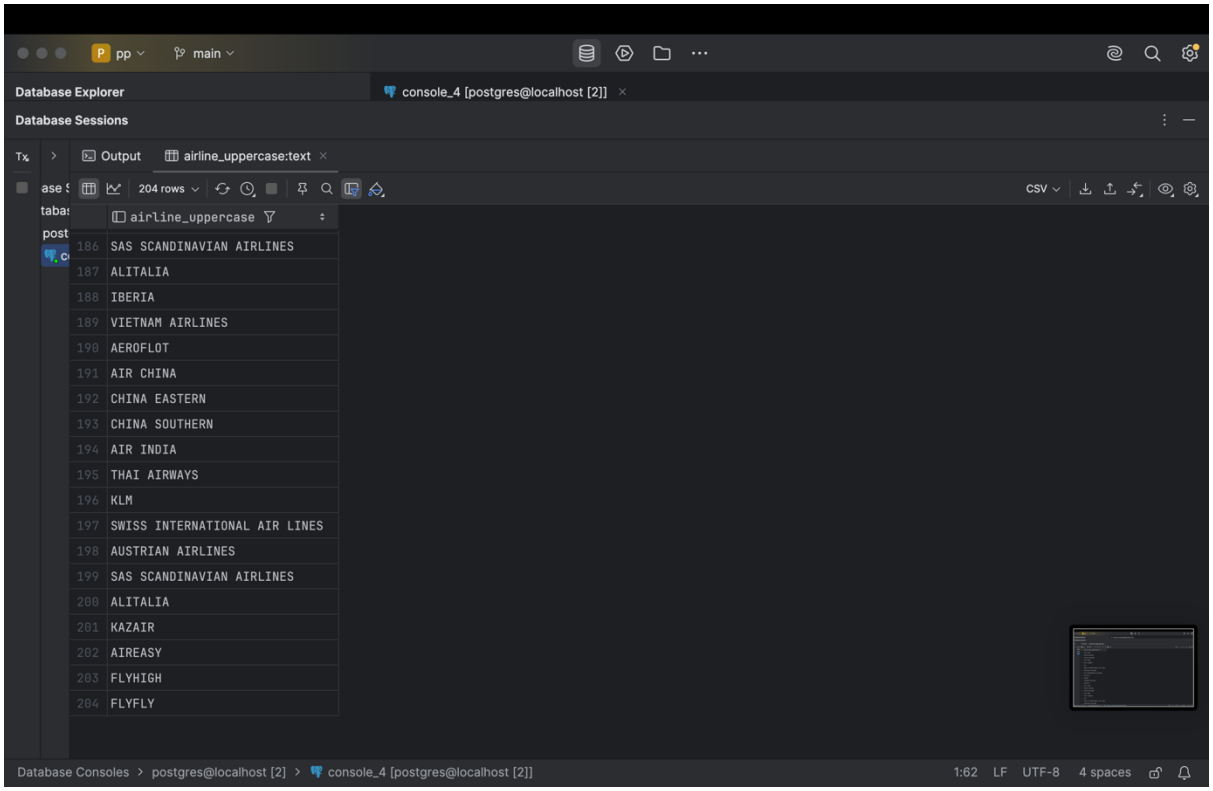

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
airline_uppercase:text
204 rows
CSV
airline_uppercase
81 AUSTRIAN AIRLINES
82 SAS SCANDINAVIAN AIRLINES
83 ALITALIA
84 IBERIA
85 VIETNAM AIRLINES
86 AEROFLOT
87 AIR CHINA
88 CHINA EASTERN
89 CHINA SOUTHERN
90 AIR INDIA
91 THAI AIRWAYS
92 KLM
93 SWISS INTERNATIONAL AIR LINES
94 AUSTRIAN AIRLINES
95 SAS SCANDINAVIAN AIRLINES
96 ALITALIA
97 IBERIA
98 VIETNAM AIRLINES
99 AEROFLOT
100 AIR CHINA
101 CHINA EASTERN
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:62 LF UTF-8 4 spaces


pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
airline_uppercase:text
204 rows
CSV
airline_uppercase
102 CHINA SOUTHERN
103 AIR INDIA
104 THAI AIRWAYS
105 KLM
106 SWISS INTERNATIONAL AIR LINES
107 AUSTRIAN AIRLINES
108 SAS SCANDINAVIAN AIRLINES
109 ALITALIA
110 IBERIA
111 VIETNAM AIRLINES
112 AEROFLOT
113 AIR CHINA
114 CHINA EASTERN
115 CHINA SOUTHERN
116 AIR INDIA
117 THAI AIRWAYS
118 KLM
119 SWISS INTERNATIONAL AIR LINES
120 AUSTRIAN AIRLINES
121 SAS SCANDINAVIAN AIRLINES
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:62 LF UTF-8 4 spaces


pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
airline_uppercase:text
204 rows
CSV
airline_uppercase
123 IBERIA
124 VIETNAM AIRLINES
125 AEROFLOT
126 AIR CHINA
127 CHINA EASTERN
128 CHINA SOUTHERN
129 AIR INDIA
130 THAI AIRWAYS
131 KLM
132 SWISS INTERNATIONAL AIR LINES
133 AUSTRIAN AIRLINES
134 SAS SCANDINAVIAN AIRLINES
135 ALITALIA
136 IBERIA
137 VIETNAM AIRLINES
138 AEROFLOT
139 AIR CHINA
140 CHINA EASTERN
141 CHINA SOUTHERN
142 AIR INDIA
143 THAI AIRWAYS
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:62 LF UTF-8 4 spaces

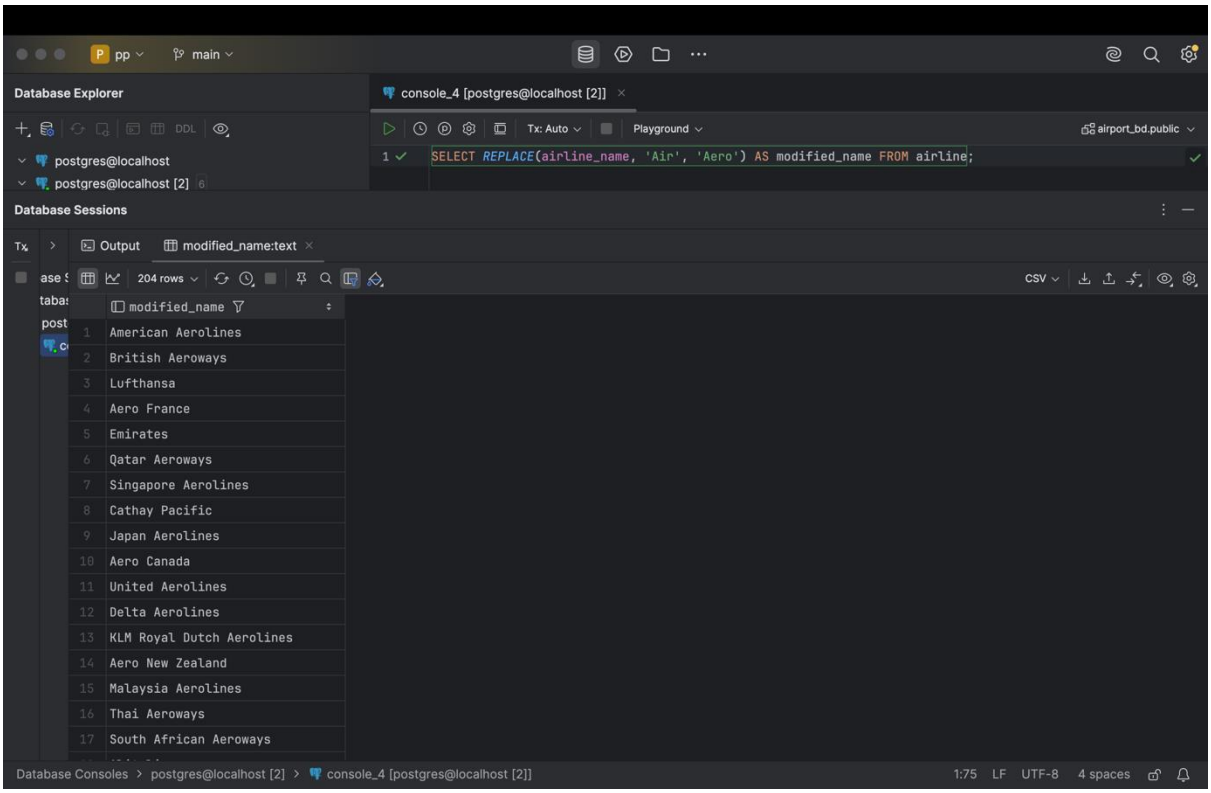

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
airline_uppercase:text
204 rows
CSV
airline_uppercase
144 KLM
145 SWISS INTERNATIONAL AIR LINES
146 AUSTRIAN AIRLINES
147 SAS SCANDINAVIAN AIRLINES
148 ALITALIA
149 IBERIA
150 VIETNAM AIRLINES
151 AEROFLOT
152 AIR CHINA
153 CHINA EASTERN
154 CHINA SOUTHERN
155 AIR INDIA
156 THAI AIRWAYS
157 KLM
158 SWISS INTERNATIONAL AIR LINES
159 AUSTRIAN AIRLINES
160 SAS SCANDINAVIAN AIRLINES
161 ALITALIA
162 IBERIA
163 VIETNAM AIRLINES
164 AEROFLOT
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:62 LF UTF-8 4 spaces

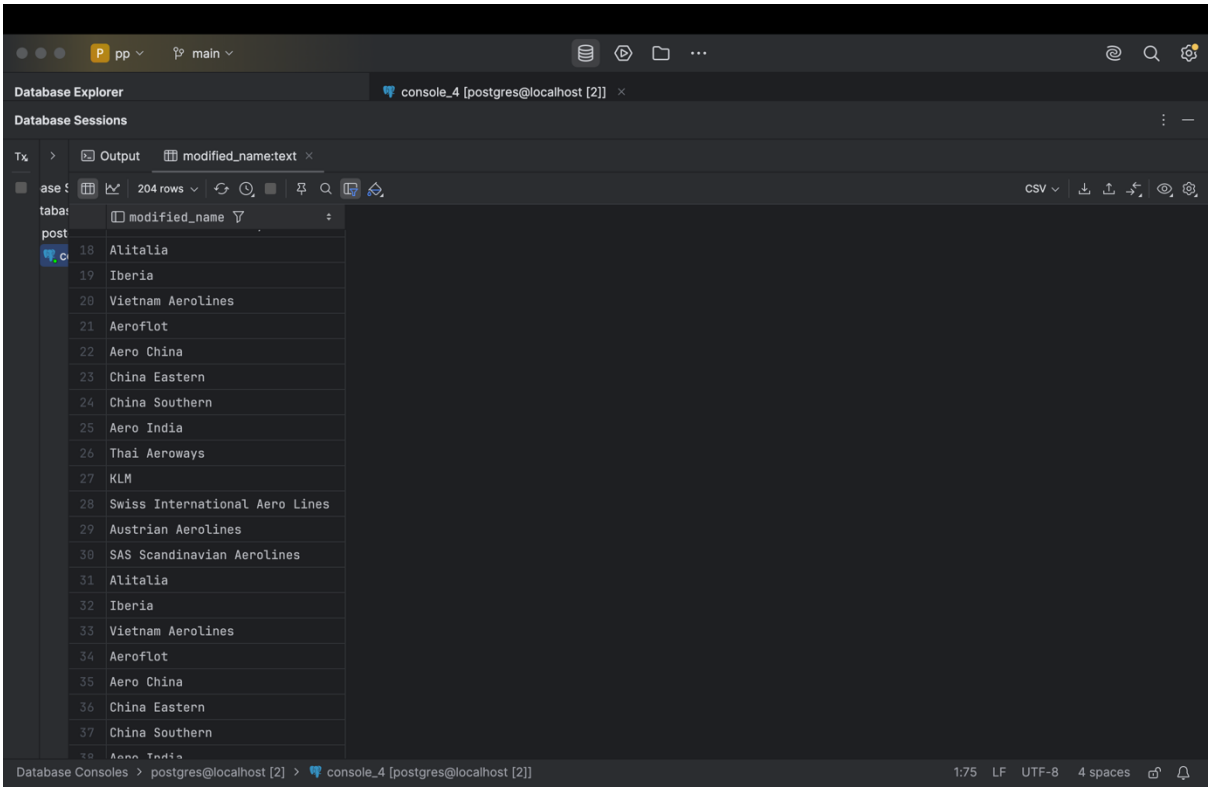

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
airline_uppercase:text
204 rows
CSV
airline_uppercase
165 AIR CHINA
166 CHINA EASTERN
167 CHINA SOUTHERN
168 AIR INDIA
169 THAI AIRWAYS
170 KLM
171 SWISS INTERNATIONAL AIR LINES
172 AUSTRIAN AIRLINES
173 SAS SCANDINAVIAN AIRLINES
174 ALITALIA
175 IBERIA
176 VIETNAM AIRLINES
177 AEROFLOT
178 AIR CHINA
179 CHINA EASTERN
180 CHINA SOUTHERN
181 AIR INDIA
182 THAI AIRWAYS
183 KLM
184 SWISS INTERNATIONAL AIR LINES
185 AUSTRIAN AIRLINES
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:62 LF UTF-8 4 spaces

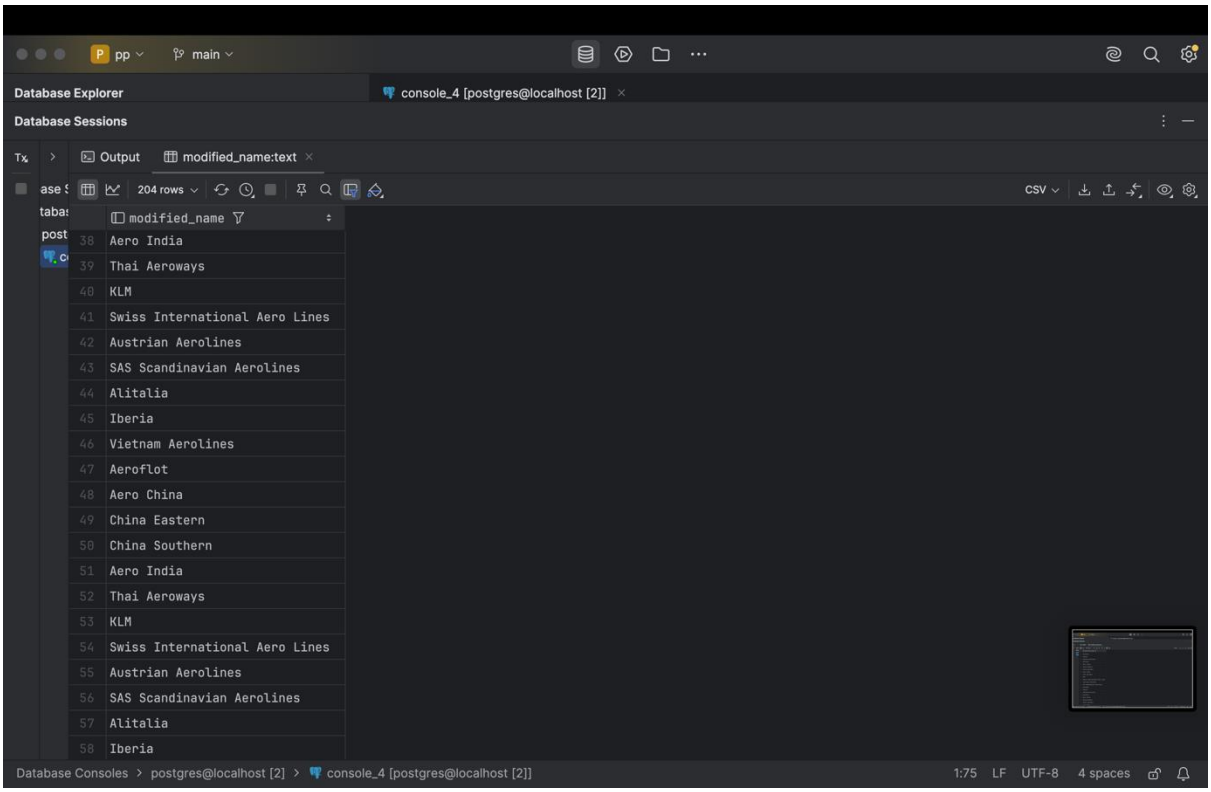


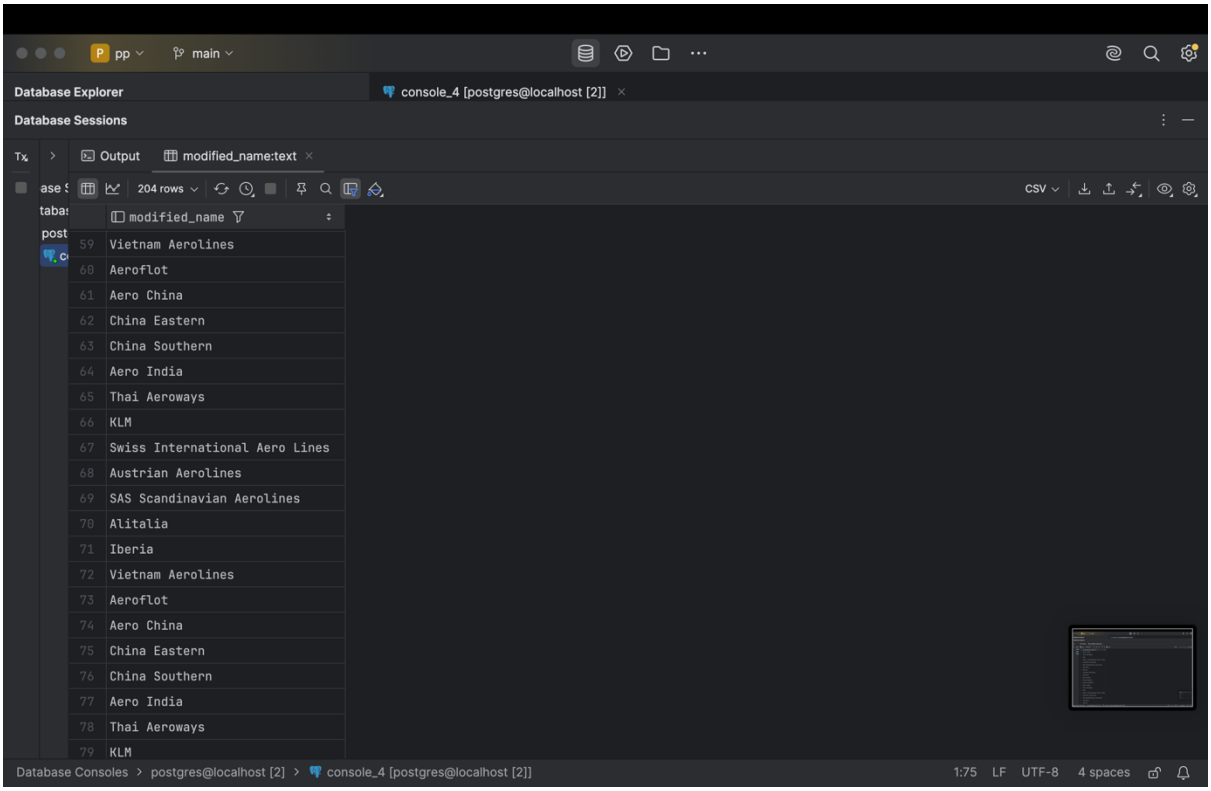

```sql
SELECT UPPER(airline_name) AS airline_uppercase FROM airline;
```

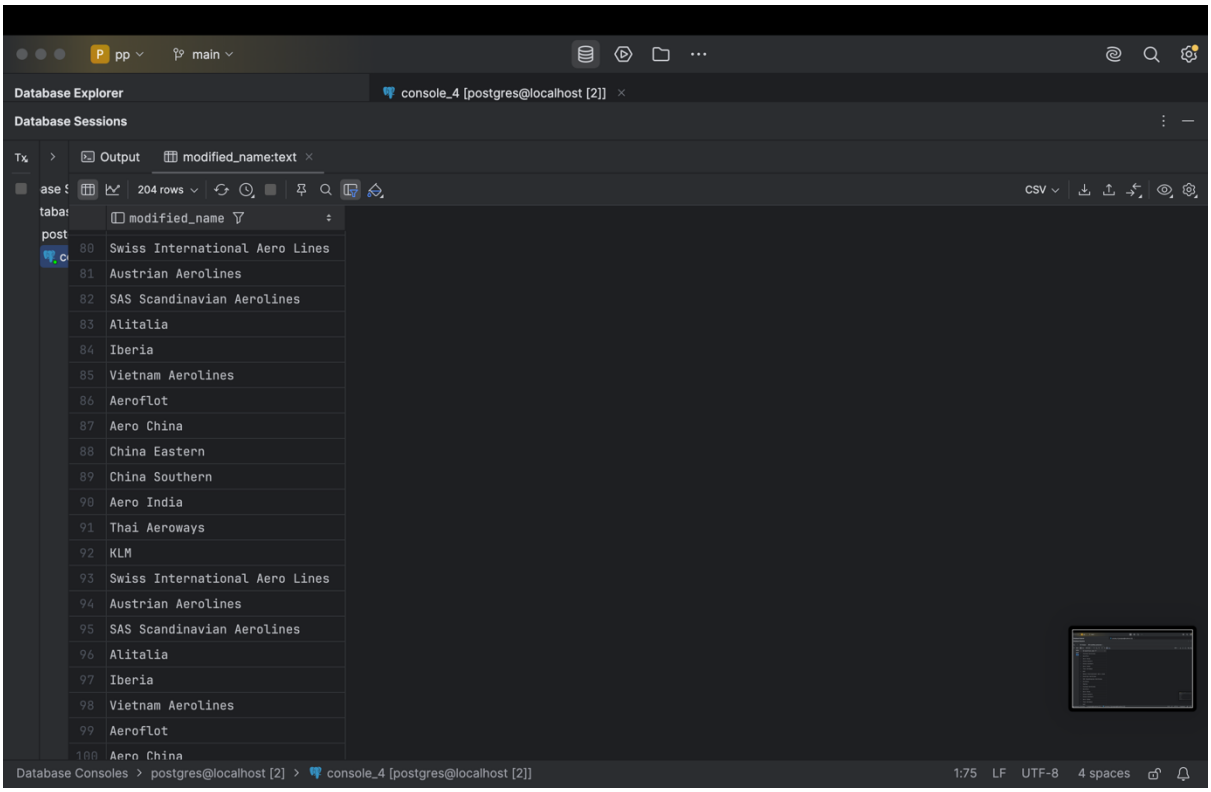
2. Replace any occurrence of the word "Air" in airline names with "Aero".

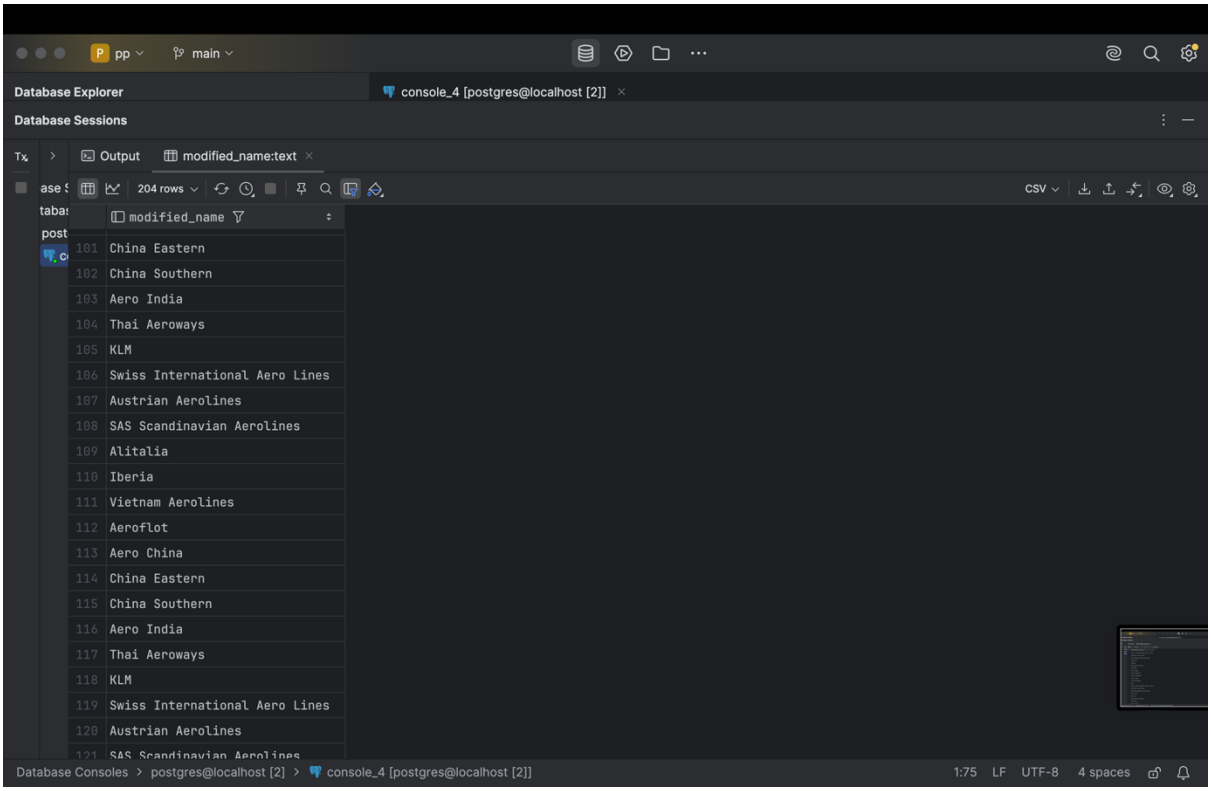


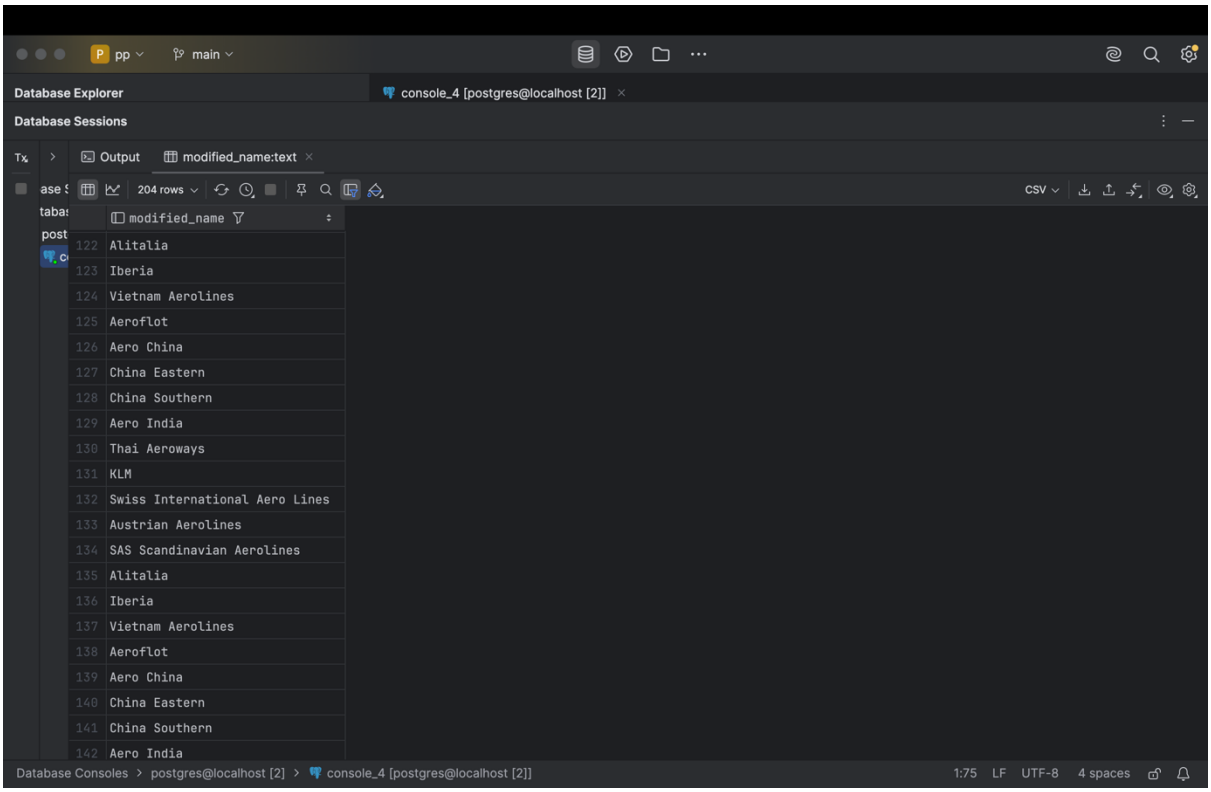

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
modified_name:text
204 rows
CSV
modified_name
18 Alitalia
19 Iberia
20 Vietnam Aerolines
21 Aeroflot
22 Aero China
23 China Eastern
24 China Southern
25 Aero India
26 Thai Aeroways
27 KLM
28 Swiss International Aero Lines
29 Austrian Aerolines
30 SAS Scandinavian Aerolines
31 Alitalia
32 Iberia
33 Vietnam Aerolines
34 Aeroflot
35 Aero China
36 China Eastern
37 China Southern
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:75 LF UTF-8 4 spaces

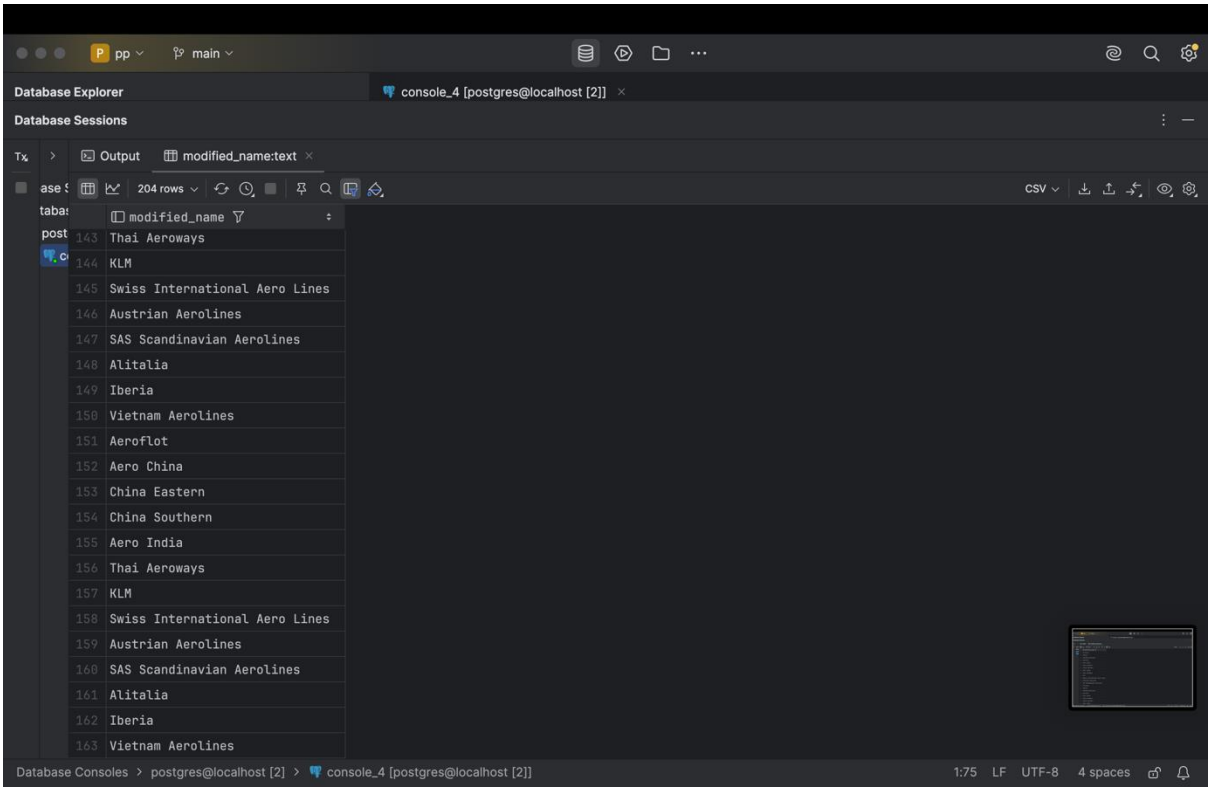

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
modified_name:text
204 rows
CSV
modified_name
38 Aero India
39 Thai Aeroways
40 KLM
41 Swiss International Aero Lines
42 Austrian Aerolines
43 SAS Scandinavian Aerolines
44 Alitalia
45 Iberia
46 Vietnam Aerolines
47 Aeroflot
48 Aero China
49 China Eastern
50 China Southern
51 Aero India
52 Thai Aeroways
53 KLM
54 Swiss International Aero Lines
55 Austrian Aerolines
56 SAS Scandinavian Aerolines
57 Alitalia
58 Iberia
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:75 LF UTF-8 4 spaces

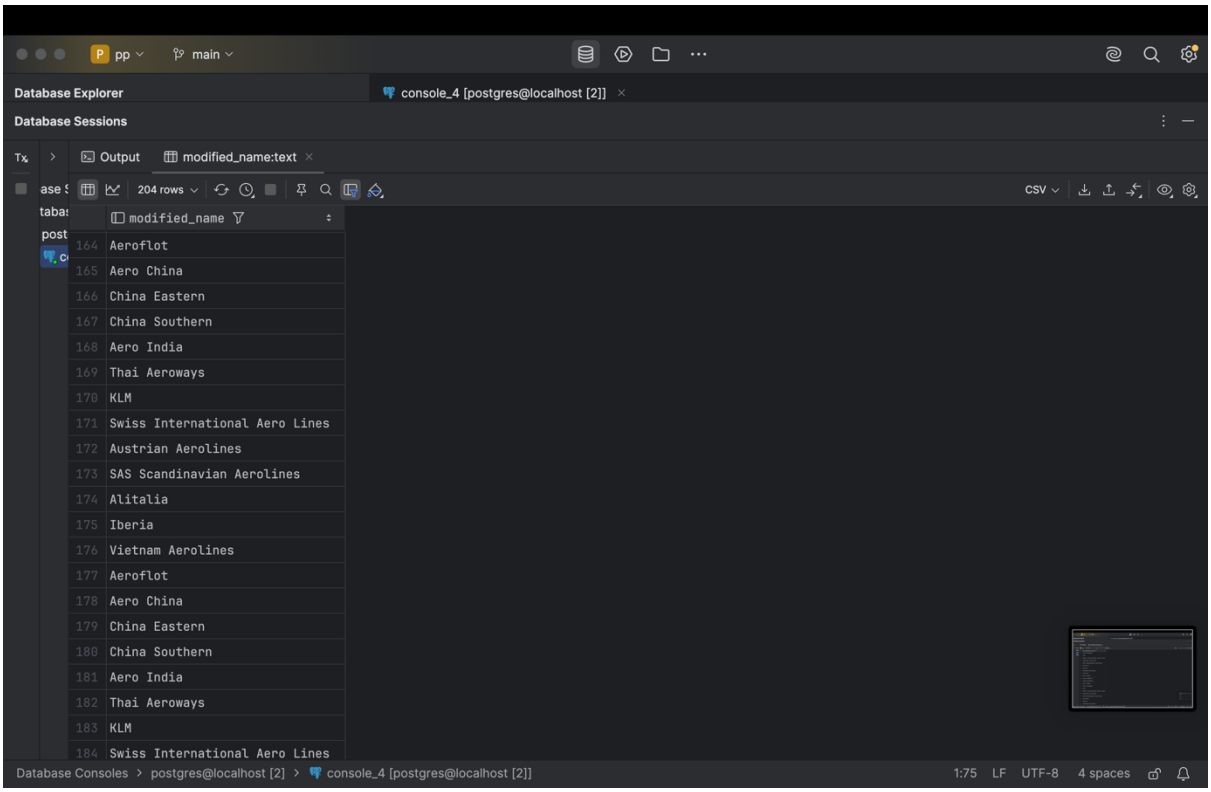

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
modified_name:text
204 rows
CSV
modified_name
59 Vietnam Aerolines
60 Aeroflot
61 Aero China
62 China Eastern
63 China Southern
64 Aero India
65 Thai Aeroways
66 KLM
67 Swiss International Aero Lines
68 Austrian Aerolines
69 SAS Scandinavian Aerolines
70 Alitalia
71 Iberia
72 Vietnam Aerolines
73 Aeroflot
74 Aero China
75 China Eastern
76 China Southern
77 Aero India
78 Thai Aeroways
79 KLM
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:75 LF UTF-8 4 spaces

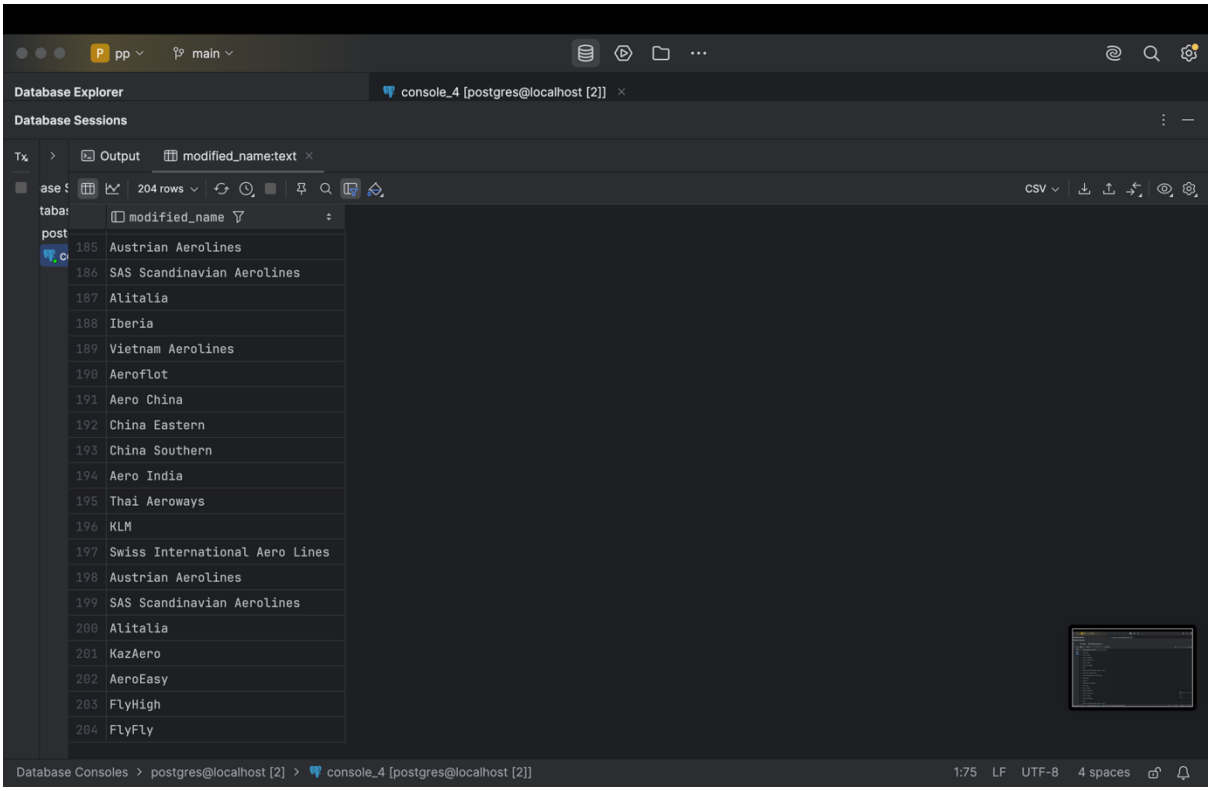

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
modified_name:text
204 rows
CSV
modified_name
80 Swiss International Aero Lines
81 Austrian Aerolines
82 SAS Scandinavian Aerolines
83 Alitalia
84 Iberia
85 Vietnam Aerolines
86 Aeroflot
87 Aero China
88 China Eastern
89 China Southern
90 Aero India
91 Thai Aeroways
92 KLM
93 Swiss International Aero Lines
94 Austrian Aerolines
95 SAS Scandinavian Aerolines
96 Alitalia
97 Iberia
98 Vietnam Aerolines
99 Aeroflot
100 Aero China
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:75 LF UTF-8 4 spaces

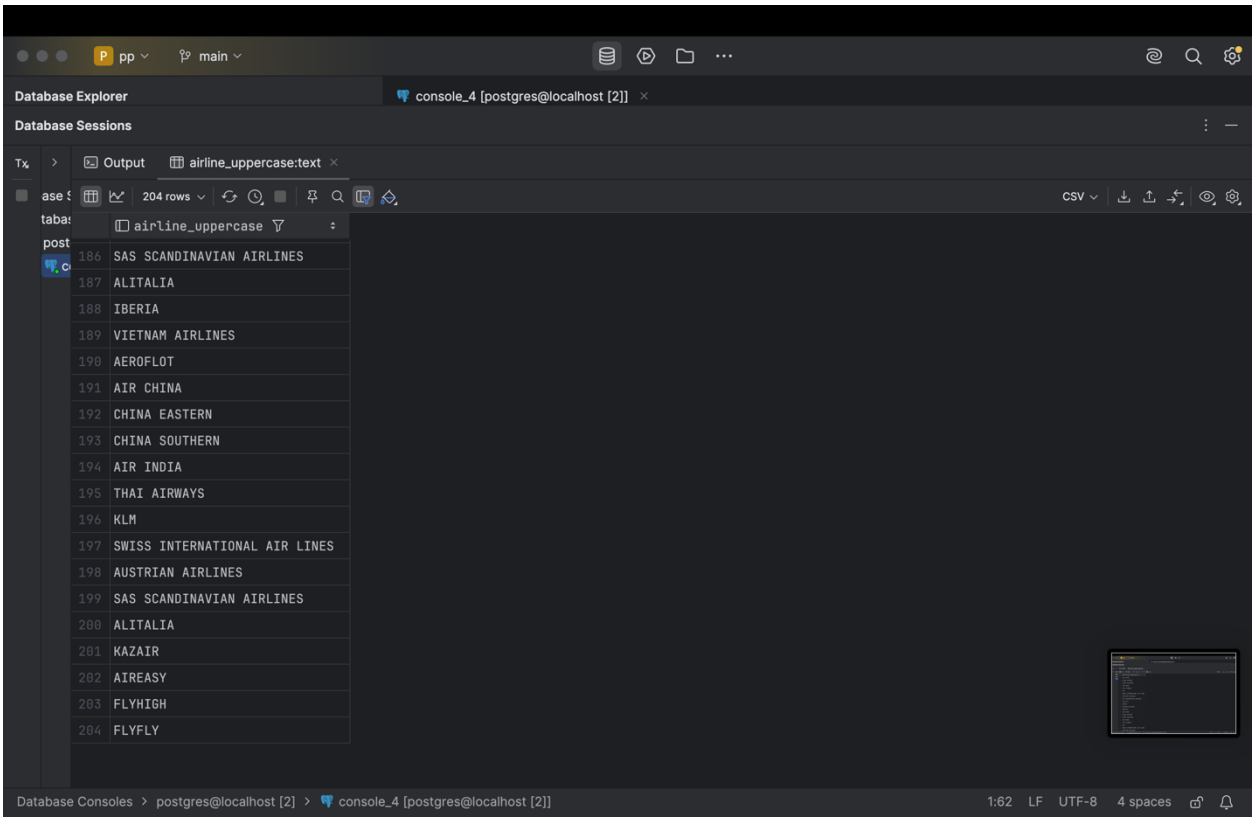

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
modified_name:text
204 rows
CSV
modified_name
101 China Eastern
102 China Southern
103 Aero India
104 Thai Aeroways
105 KLM
106 Swiss International Aero Lines
107 Austrian Aerolines
108 SAS Scandinavian Aerolines
109 Alitalia
110 Iberia
111 Vietnam Aerolines
112 Aeroflot
113 Aero China
114 China Eastern
115 China Southern
116 Aero India
117 Thai Aeroways
118 KLM
119 Swiss International Aero Lines
120 Austrian Aerolines
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:75 LF UTF-8 4 spaces

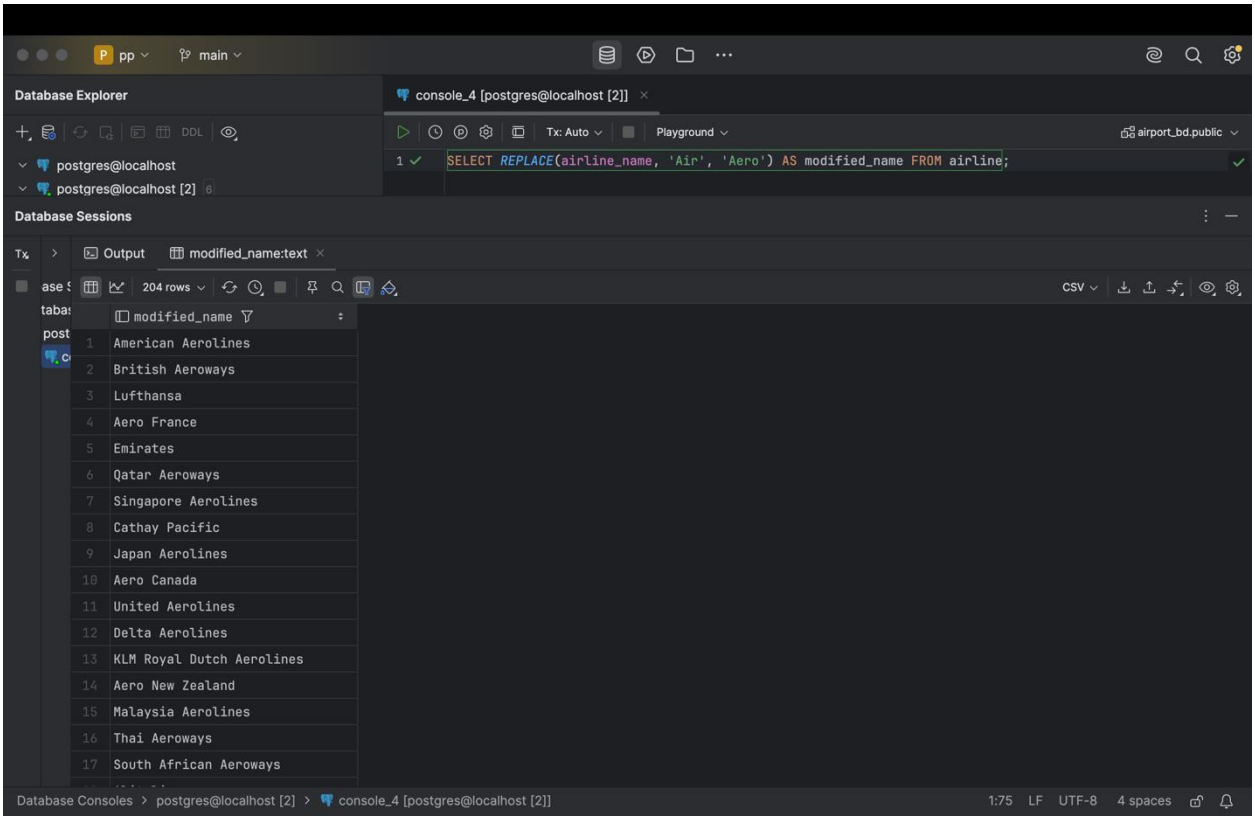

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
modified_name:text
204 rows
CSV
modified_name
122 Alitalia
123 Iberia
124 Vietnam Aerolines
125 Aeroflot
126 Aero China
127 China Eastern
128 China Southern
129 Aero India
130 Thai Aeroways
131 KLM
132 Swiss International Aero Lines
133 Austrian Aerolines
134 SAS Scandinavian Aerolines
135 Alitalia
136 Iberia
137 Vietnam Aerolines
138 Aeroflot
139 Aero China
140 China Eastern
141 China Southern
142 Aero India
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:75 LF UTF-8 4 spaces

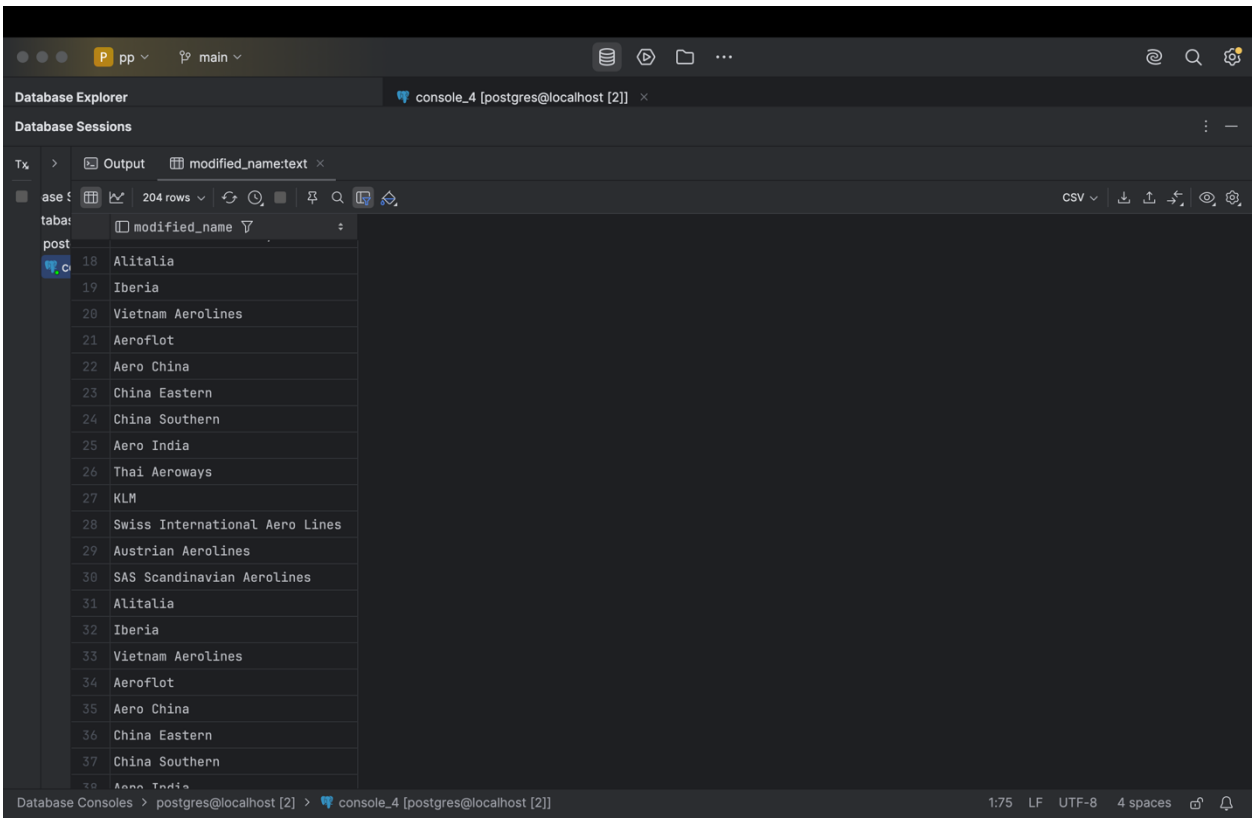

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
modified_name:text
204 rows
CSV
modified_name
143 Thai Aeroways
144 KLM
145 Swiss International Aero Lines
146 Austrian Aerolines
147 SAS Scandinavian Aerolines
148 Alitalia
149 Iberia
150 Vietnam Aerolines
151 Aeroflot
152 Aero China
153 China Eastern
154 China Southern
155 Aero India
156 Thai Aeroways
157 KLM
158 Swiss International Aero Lines
159 Austrian Aerolines
160 SAS Scandinavian Aerolines
161 Alitalia
162 Iberia
163 Vietnam Aerolines
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:75 LF UTF-8 4 spaces

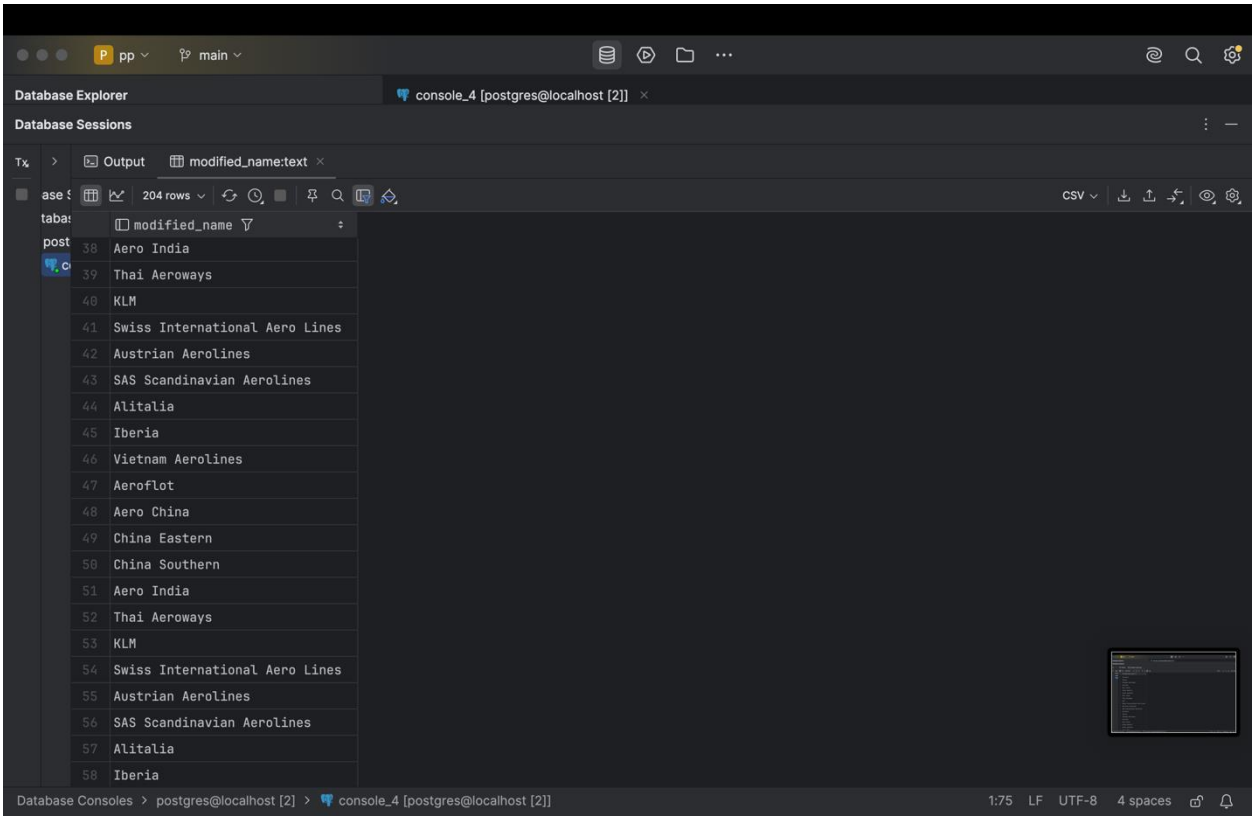

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
modified_name:text
204 rows
CSV
modified_name
164 Aeroflot
165 Aero China
166 China Eastern
167 China Southern
168 Aero India
169 Thai Aeroways
170 KLM
171 Swiss International Aero Lines
172 Austrian Aerolines
173 SAS Scandinavian Aerolines
174 Alitalia
175 Iberia
176 Vietnam Aerolines
177 Aeroflot
178 Aero China
179 China Eastern
180 China Southern
181 Aero India
182 Thai Aeroways
183 KLM
184 Swiss International Aero Lines
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:75 LF UTF-8 4 spaces

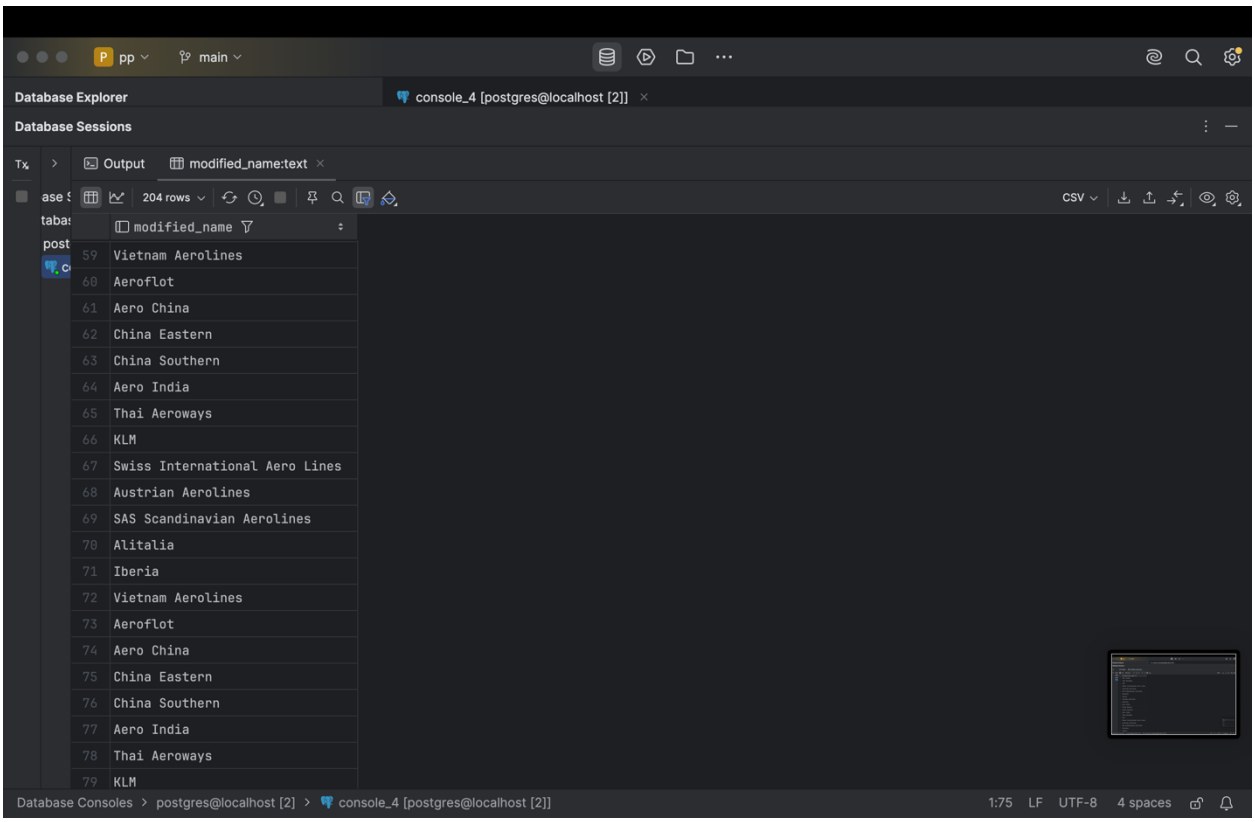

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
modified_name:text
204 rows
CSV
modified_name
185 Austrian Aerolines
186 SAS Scandinavian Aerolines
187 Alitalia
188 Iberia
189 Vietnam Aerolines
190 Aeroflot
191 Aero China
192 China Eastern
193 China Southern
194 Aero India
195 Thai Aeroways
196 KLM
197 Swiss International Aero Lines
198 Austrian Aerolines
199 SAS Scandinavian Aerolines
200 Alitalia
201 KazAero
202 AeroEasy
203 FlyHigh
204 FlyFly
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:75 LF UTF-8 4 spaces

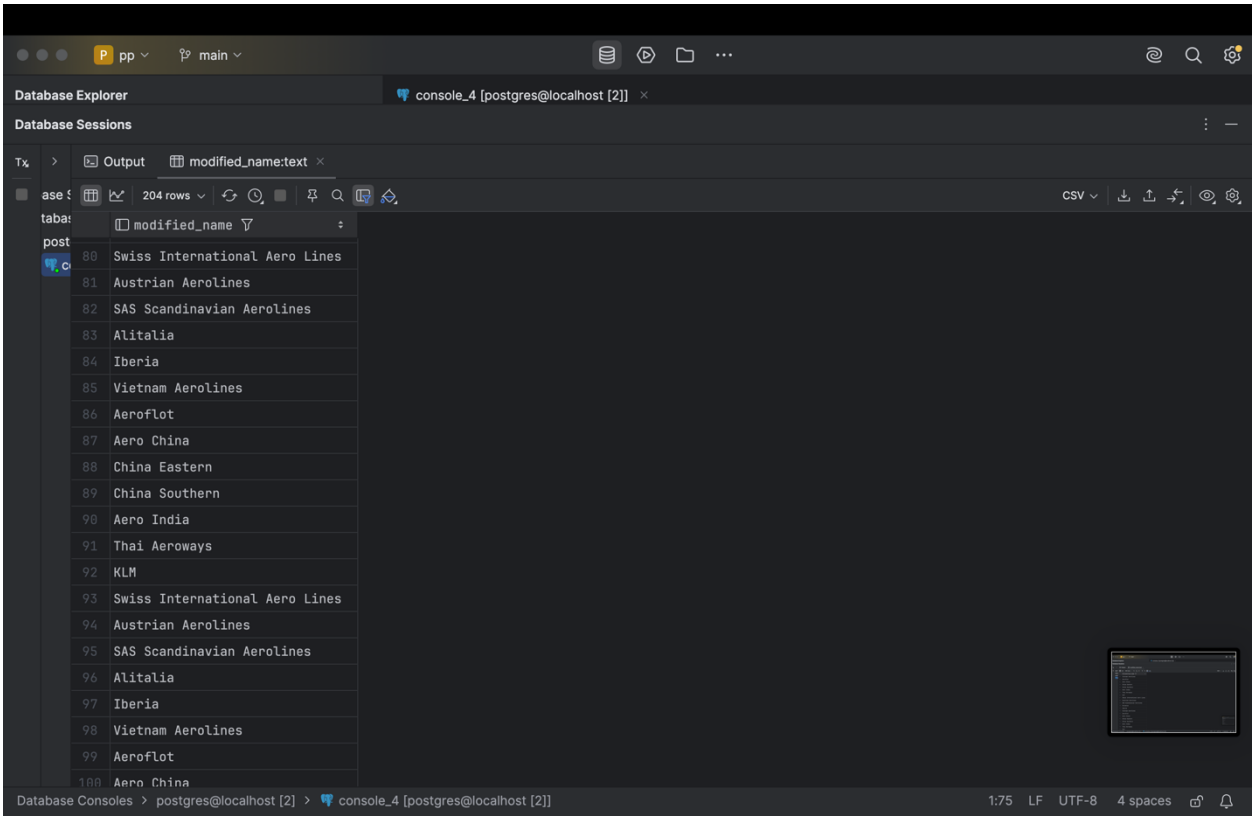

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
airline_uppercase:text
204 rows
CSV
airline_uppercase
186 SAS SCANDINAVIAN AIRLINES
187 ALITALIA
188 IBERIA
189 VIETNAM AIRLINES
190 AEROFLOT
191 AIR CHINA
192 CHINA EASTERN
193 CHINA SOUTHERN
194 AIR INDIA
195 THAI AIRWAYS
196 KLM
197 SWISS INTERNATIONAL AIR LINES
198 AUSTRIAN AIRLINES
199 SAS SCANDINAVIAN AIRLINES
200 ALITALIA
201 KAZAIR
202 AIREASY
203 FLYHIGH
204 FLYFLY
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:62 LF UTF-8 4 spaces

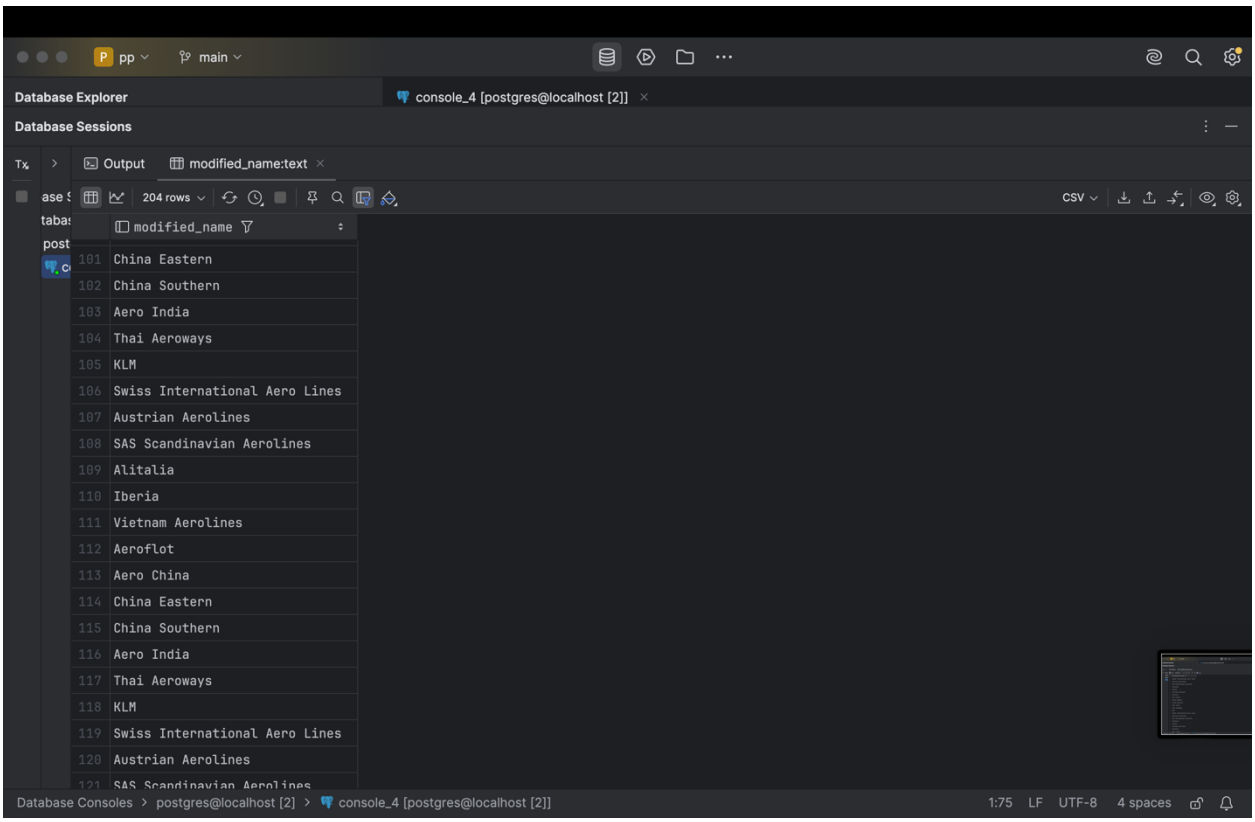

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
DDL
Tx: Auto
Playground
airport_bd.public
postgres@localhost
postgres@localhost [2]
1 SELECT REPLACE(airline_name, 'Air', 'Aero') AS modified_name FROM airline;
Database Sessions
Output
modified_name:text
204 rows
CSV
modified_name
1 American Aerolines
2 British Aeroways
3 Lufthansa
4 Aero France
5 Emirates
6 Qatar Aeroways
7 Singapore Aerolines
8 Cathay Pacific
9 Japan Aerolines
10 Aero Canada
11 United Aerolines
12 Delta Aerolines
13 KLM Royal Dutch Aerolines
14 Aero New Zealand
15 Malaysia Aerolines
16 Thai Aeroways
17 South African Aeroways
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:75 LF UTF-8 4 spaces

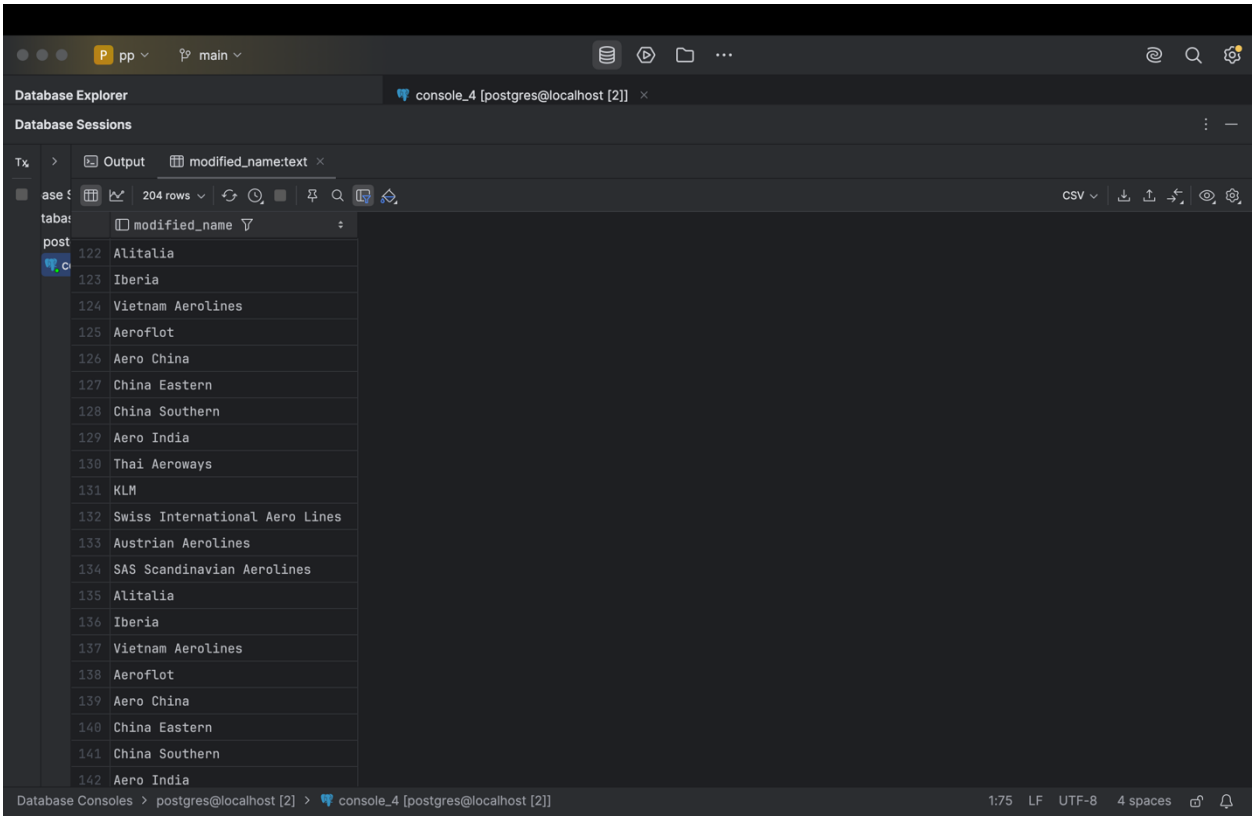

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
modified_name:text
204 rows
CSV
modified_name
18 Alitalia
19 Iberia
20 Vietnam Aerolines
21 Aeroflot
22 Aero China
23 China Eastern
24 China Southern
25 Aero India
26 Thai Aeroways
27 KLM
28 Swiss International Aero Lines
29 Austrian Aerolines
30 SAS Scandinavian Aerolines
31 Alitalia
32 Iberia
33 Vietnam Aerolines
34 Aeroflot
35 Aero China
36 China Eastern
37 China Southern
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:75 LF UTF-8 4 spaces

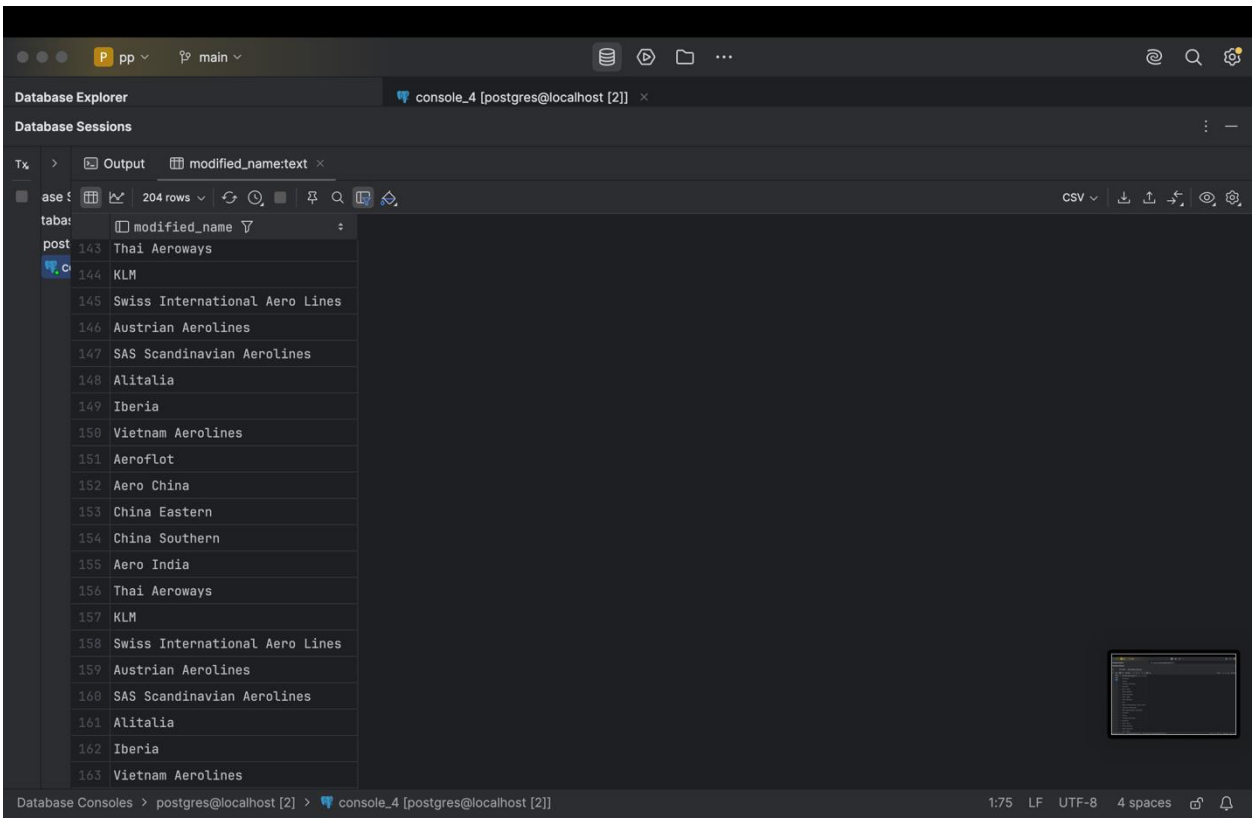

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
modified_name:text
204 rows
CSV
modified_name
38 Aero India
39 Thai Aeroways
40 KLM
41 Swiss International Aero Lines
42 Austrian Aerolines
43 SAS Scandinavian Aerolines
44 Alitalia
45 Iberia
46 Vietnam Aerolines
47 Aeroflot
48 Aero China
49 China Eastern
50 China Southern
51 Aero India
52 Thai Aeroways
53 KLM
54 Swiss International Aero Lines
55 Austrian Aerolines
56 SAS Scandinavian Aerolines
57 Alitalia
58 Iberia
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:75 LF UTF-8 4 spaces

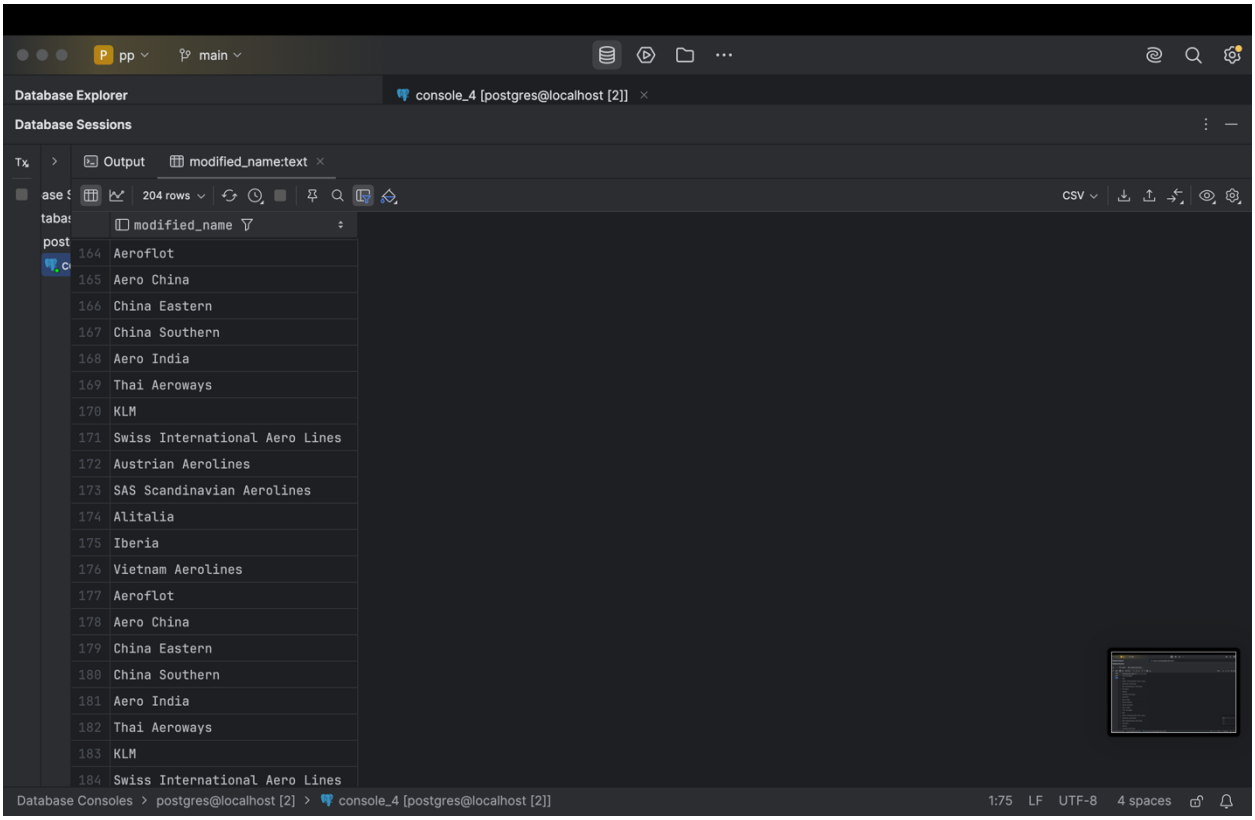

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
modified_name:text
204 rows
CSV
modified_name
59 Vietnam Aerolines
60 Aeroflot
61 Aero China
62 China Eastern
63 China Southern
64 Aero India
65 Thai Aeroways
66 KLM
67 Swiss International Aero Lines
68 Austrian Aerolines
69 SAS Scandinavian Aerolines
70 Alitalia
71 Iberia
72 Vietnam Aerolines
73 Aeroflot
74 Aero China
75 China Eastern
76 China Southern
77 Aero India
78 Thai Aeroways
79 KLM
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:75 LF UTF-8 4 spaces

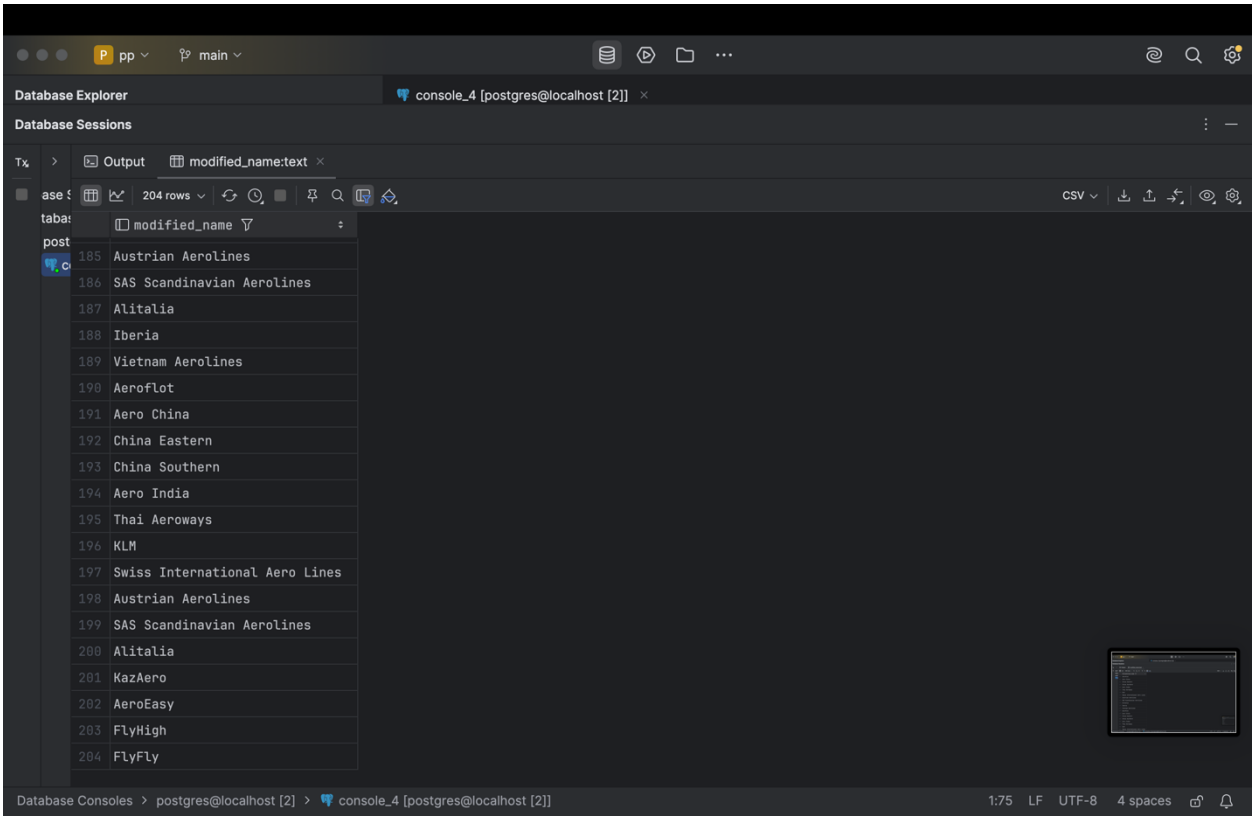

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
modified_name:text
204 rows
CSV
modified_name
80 Swiss International Aero Lines
81 Austrian Aerolines
82 SAS Scandinavian Aerolines
83 Alitalia
84 Iberia
85 Vietnam Aerolines
86 Aeroflot
87 Aero China
88 China Eastern
89 China Southern
90 Aero India
91 Thai Aeroways
92 KLM
93 Swiss International Aero Lines
94 Austrian Aerolines
95 SAS Scandinavian Aerolines
96 Alitalia
97 Iberia
98 Vietnam Aerolines
99 Aeroflot
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:75 LF UTF-8 4 spaces


pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
modified_name:text
204 rows
CSV
modified_name
101 China Eastern
102 China Southern
103 Aero India
104 Thai Aeroways
105 KLM
106 Swiss International Aero Lines
107 Austrian Aerolines
108 SAS Scandinavian Aerolines
109 Alitalia
110 Iberia
111 Vietnam Aerolines
112 Aeroflot
113 Aero China
114 China Eastern
115 China Southern
116 Aero India
117 Thai Aeroways
118 KLM
119 Swiss International Aero Lines
120 Austrian Aerolines
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:75 LF UTF-8 4 spaces


pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
modified_name:text
204 rows
CSV
modified_name
122 Alitalia
123 Iberia
124 Vietnam Aerolines
125 Aeroflot
126 Aero China
127 China Eastern
128 China Southern
129 Aero India
130 Thai Aeroways
131 KLM
132 Swiss International Aero Lines
133 Austrian Aerolines
134 SAS Scandinavian Aerolines
135 Alitalia
136 Iberia
137 Vietnam Aerolines
138 Aeroflot
139 Aero China
140 China Eastern
141 China Southern
142 Aero India
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:75 LF UTF-8 4 spaces

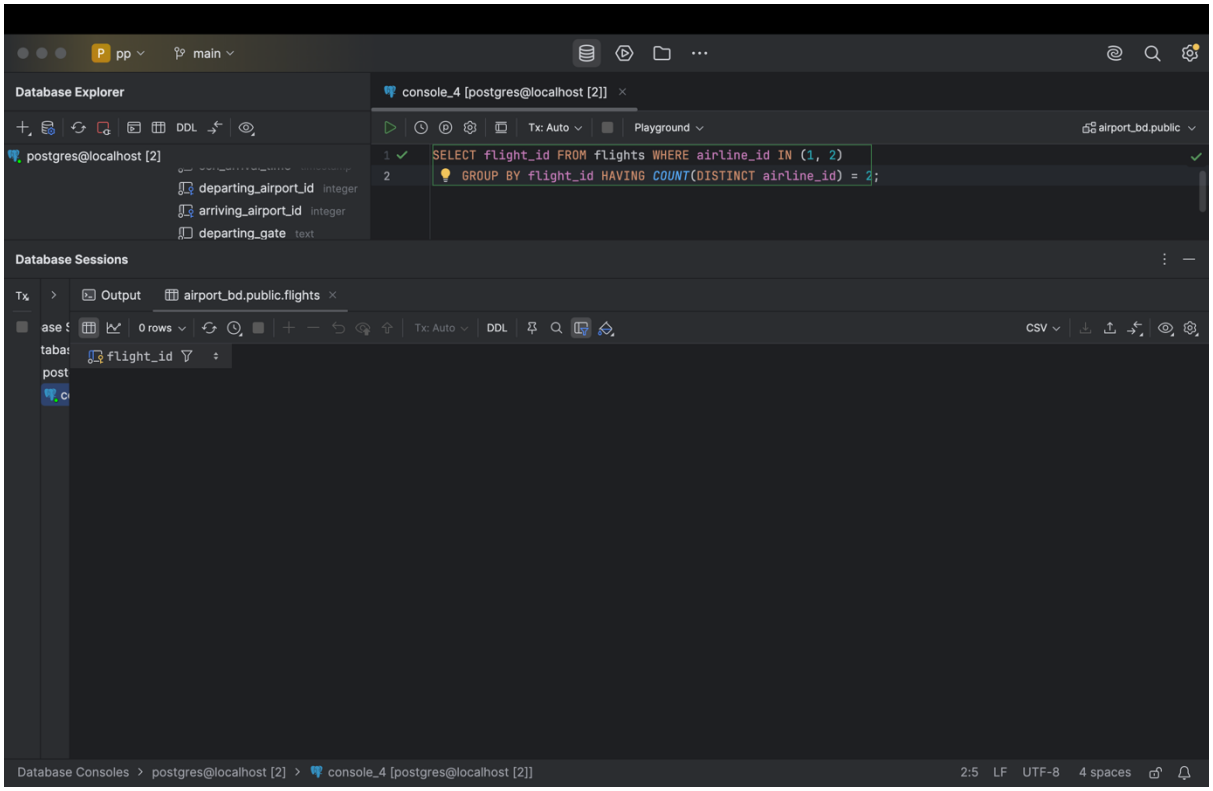

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
modified_name:text
204 rows
CSV
modified_name
143 Thai Aeroways
144 KLM
145 Swiss International Aero Lines
146 Austrian Aerolines
147 SAS Scandinavian Aerolines
148 Alitalia
149 Iberia
150 Vietnam Aerolines
151 Aeroflot
152 Aero China
153 China Eastern
154 China Southern
155 Aero India
156 Thai Aeroways
157 KLM
158 Swiss International Aero Lines
159 Austrian Aerolines
160 SAS Scandinavian Aerolines
161 Alitalia
162 Iberia
163 Vietnam Aerolines
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
1:75 LF UTF-8 4 spaces





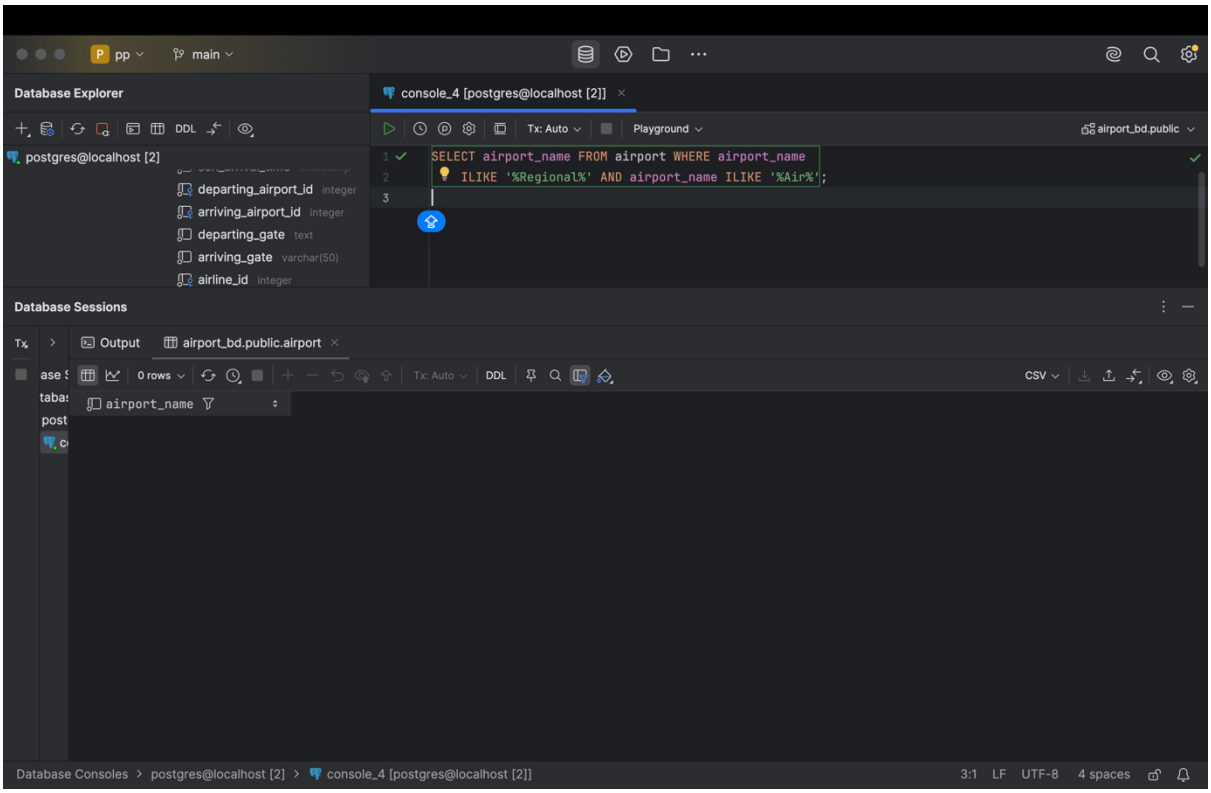

```
SELECT REPLACE(airline_name, 'Air', 'Aero') AS modified_name FROM
airline;
```

3. Fing all flight numbers that coordinates with both airline 1 and airline



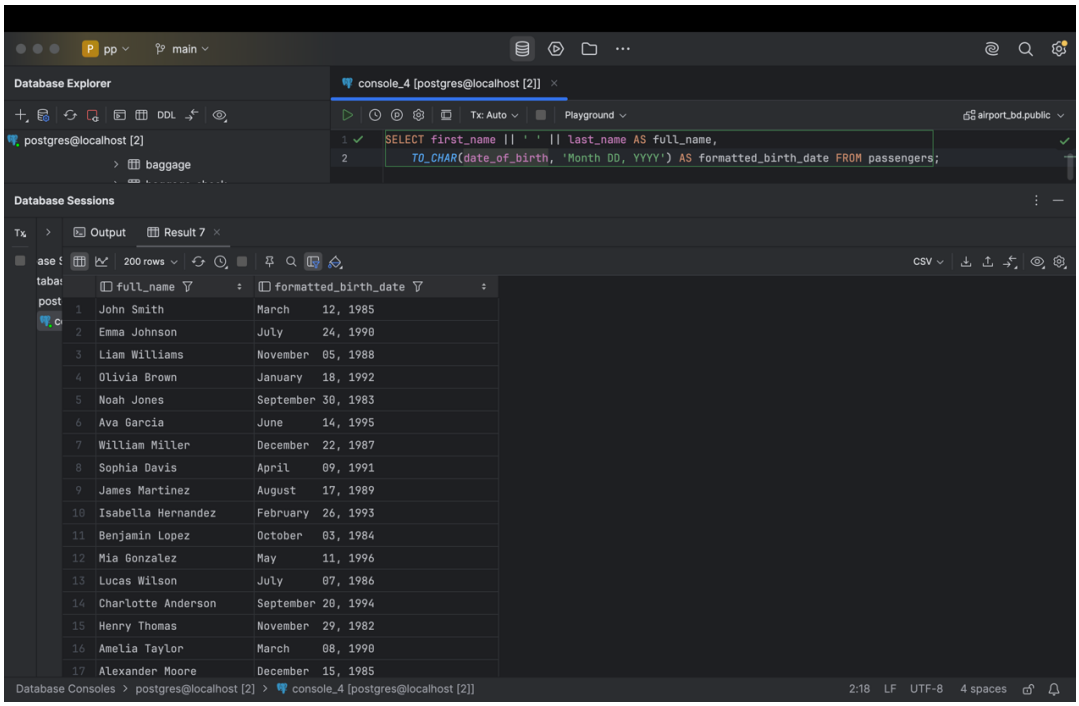

```
SELECT flight_id FROM flights WHERE airline_id IN (1, 2)
    GROUP BY flight_id HAVING COUNT(DISTINCT airline_id) = 2;
```

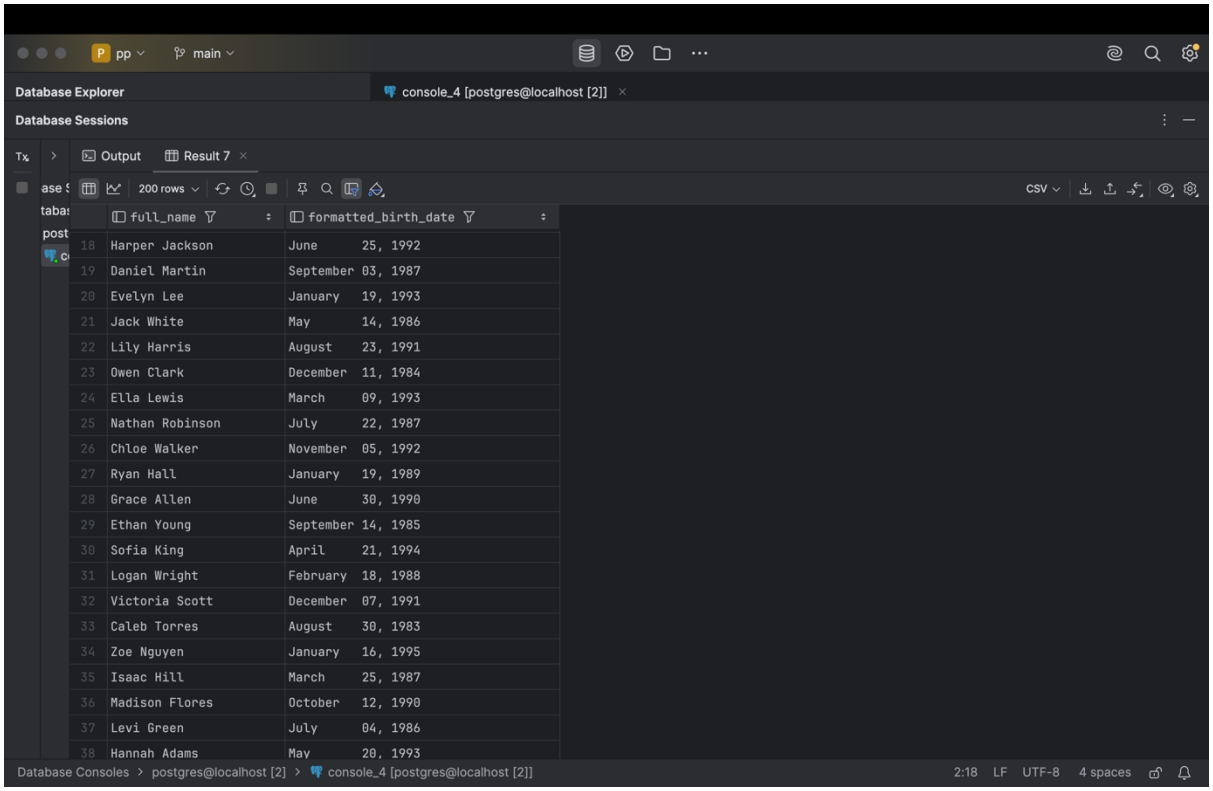
4. Retrieve airports that contain the word "Reginal" and "Air" in their names.

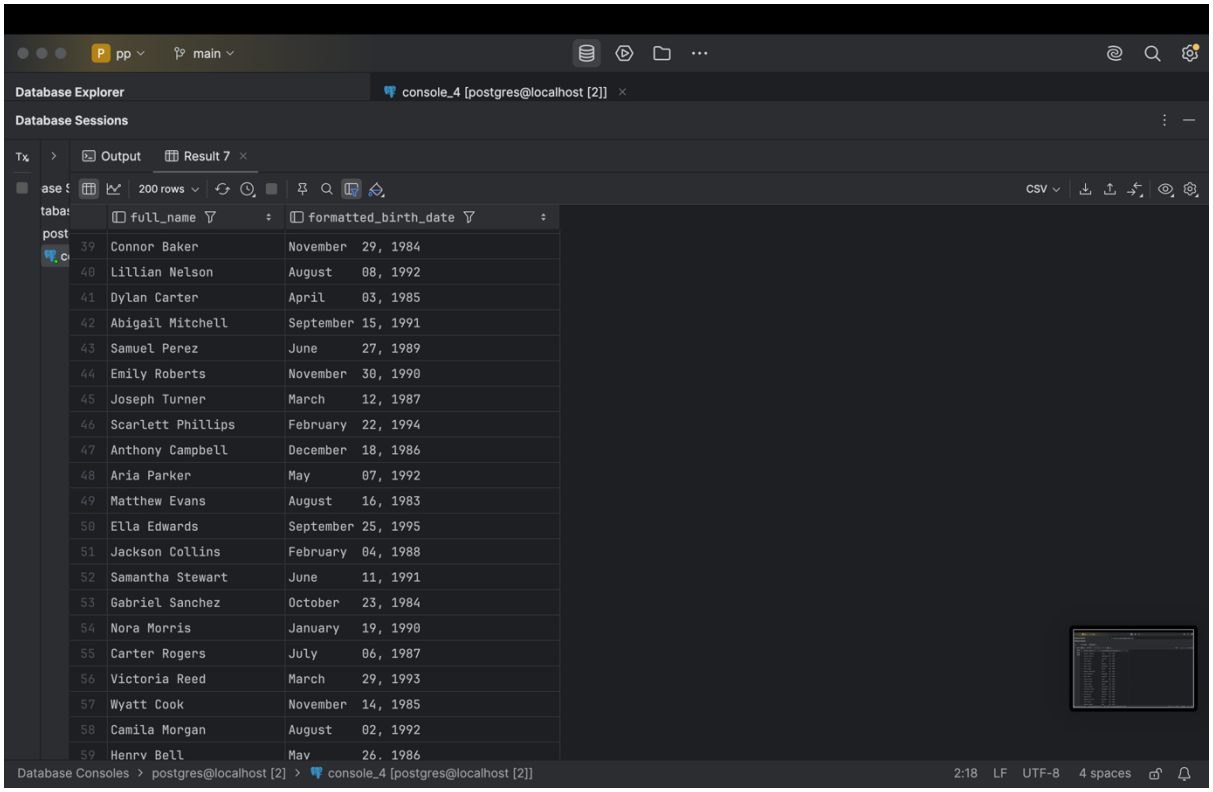


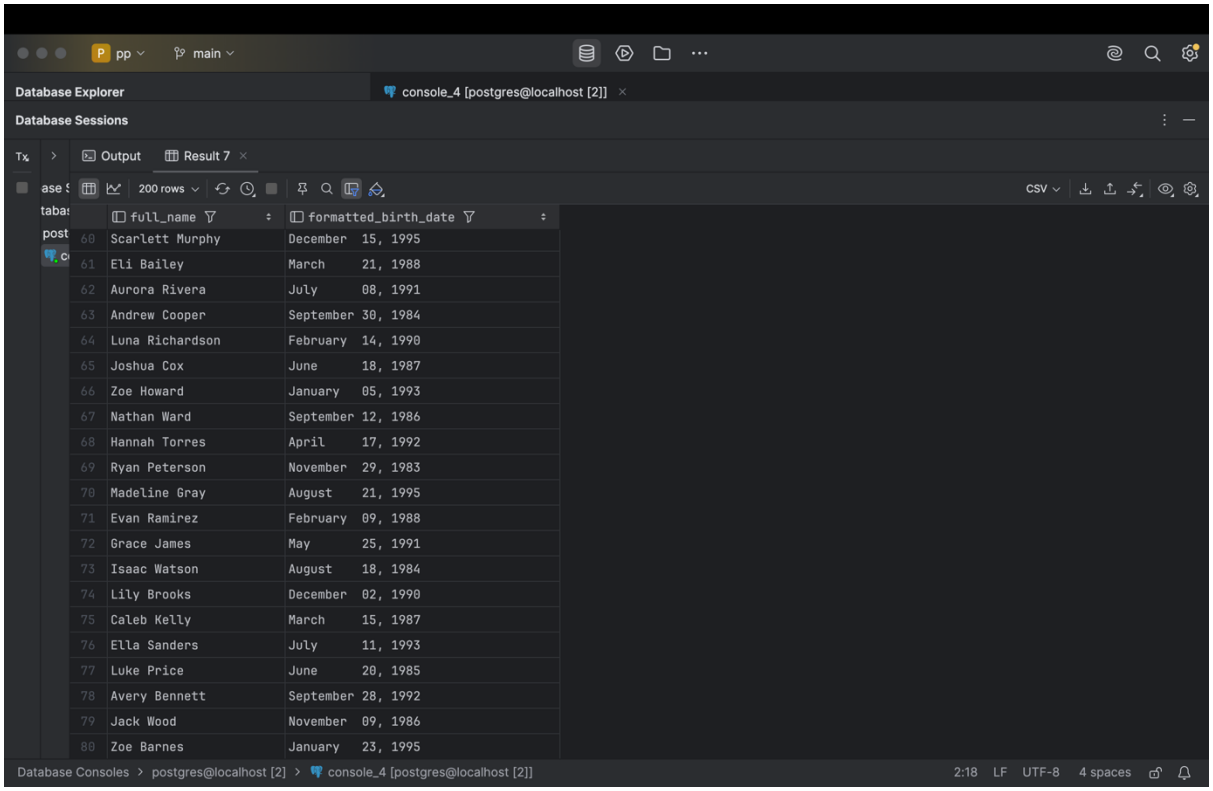
```
SELECT airport_name FROM airport WHERE airport_name
    ILIKE '%Regional%' AND airport_name ILIKE '%Air%';
```

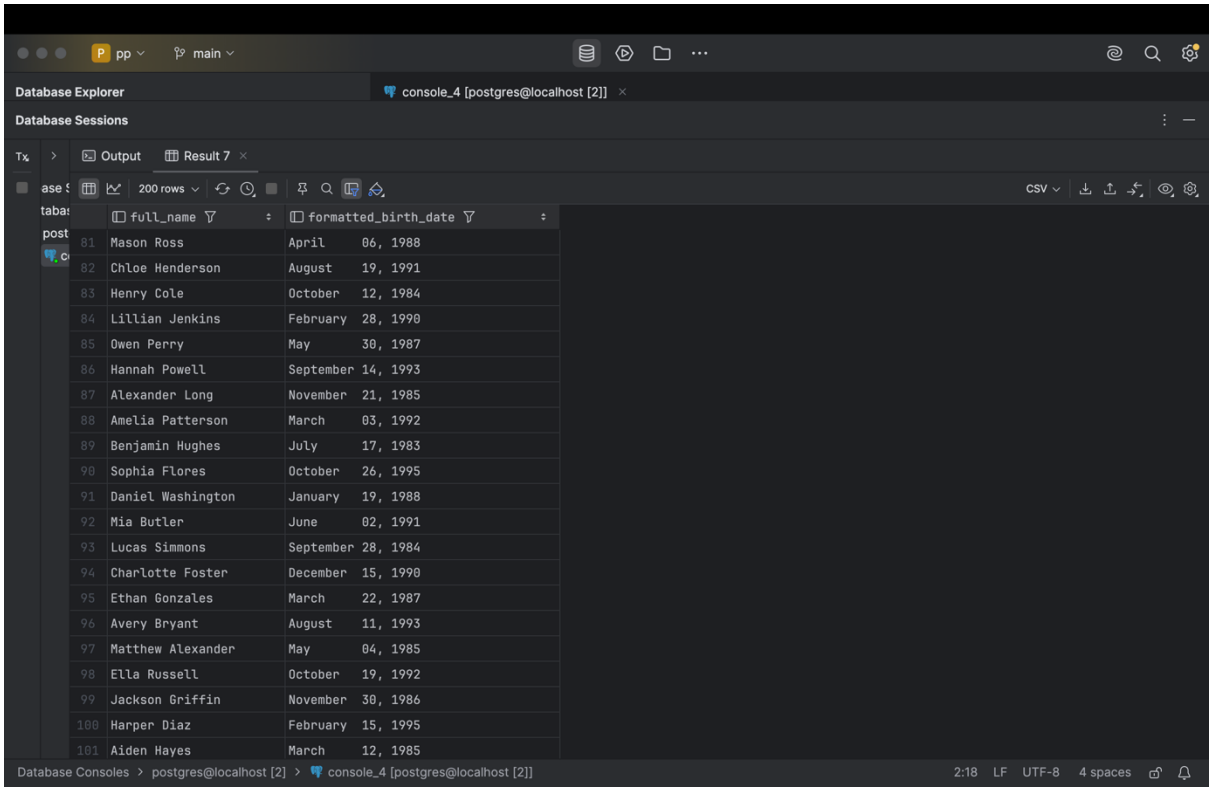
5. Retrieve passenger names and format their birth dates as 'Month DD, YYYY'..o

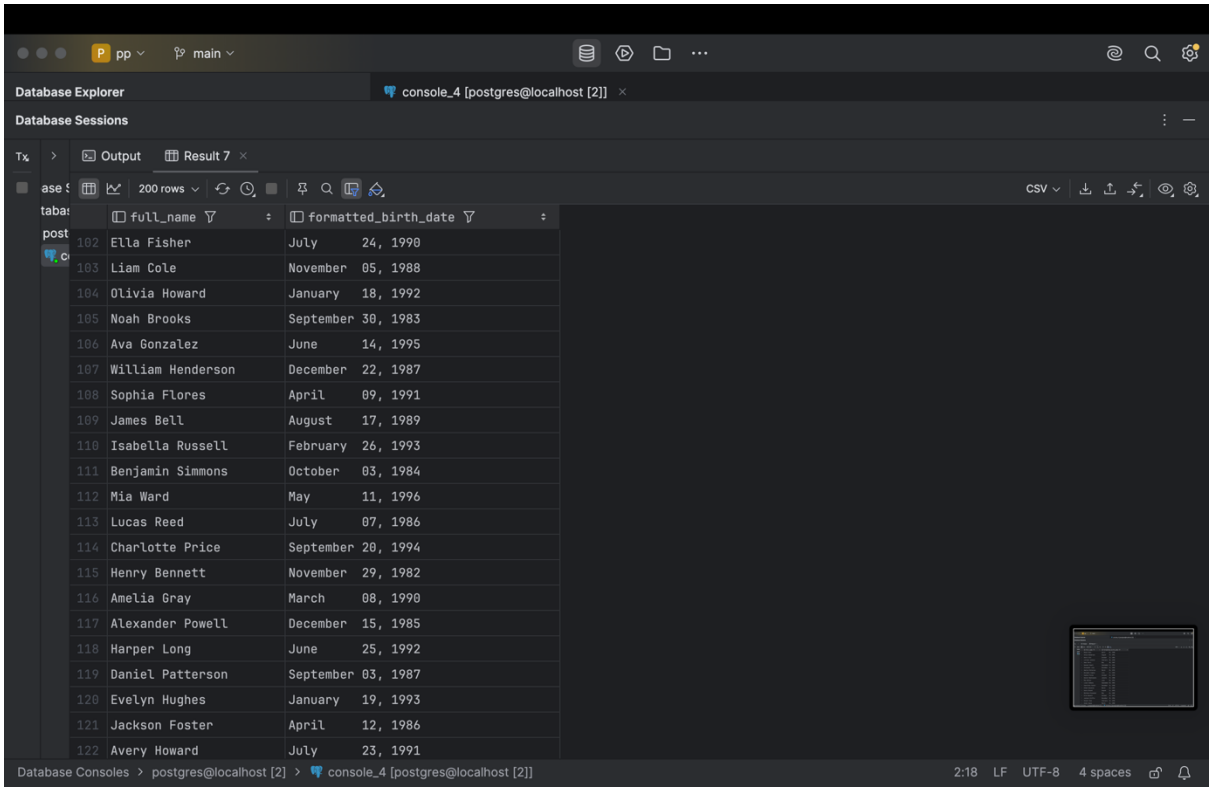


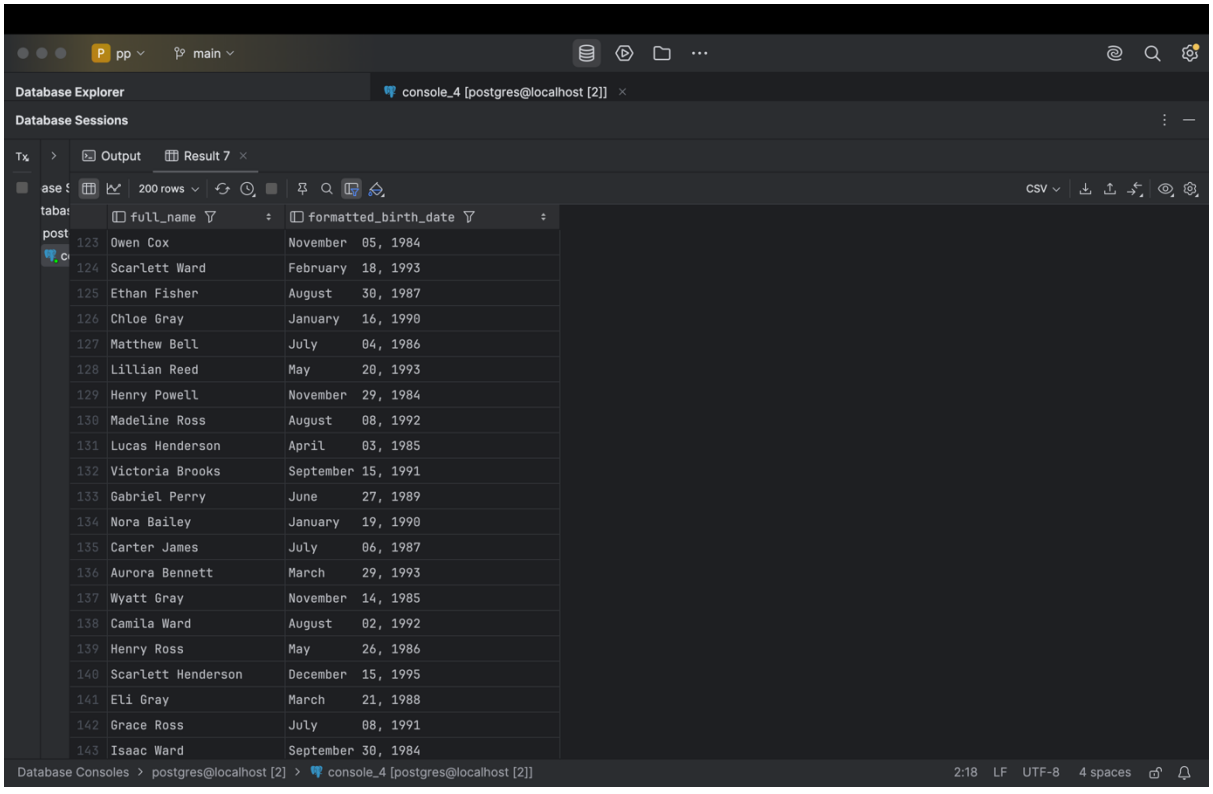

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 7
200 rows
CSV
full_name
formatted_birth_date
18 Harper Jackson June 25, 1992
19 Daniel Martin September 03, 1987
20 Evelyn Lee January 19, 1993
21 Jack White May 14, 1986
22 Lily Harris August 23, 1991
23 Owen Clark December 11, 1984
24 Ella Lewis March 09, 1993
25 Nathan Robinson July 22, 1987
26 Chloe Walker November 05, 1992
27 Ryan Hall January 19, 1989
28 Grace Allen June 30, 1990
29 Ethan Young September 14, 1985
30 Sofia King April 21, 1994
31 Logan Wright February 18, 1988
32 Victoria Scott December 07, 1991
33 Caleb Torres August 30, 1983
34 Zoe Nguyen January 16, 1995
35 Isaac Hill March 25, 1987
36 Madison Flores October 12, 1990
37 Levi Green July 04, 1986
38 Hannah Adams May 20, 1993
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
2:18 LF UTF-8 4 spaces

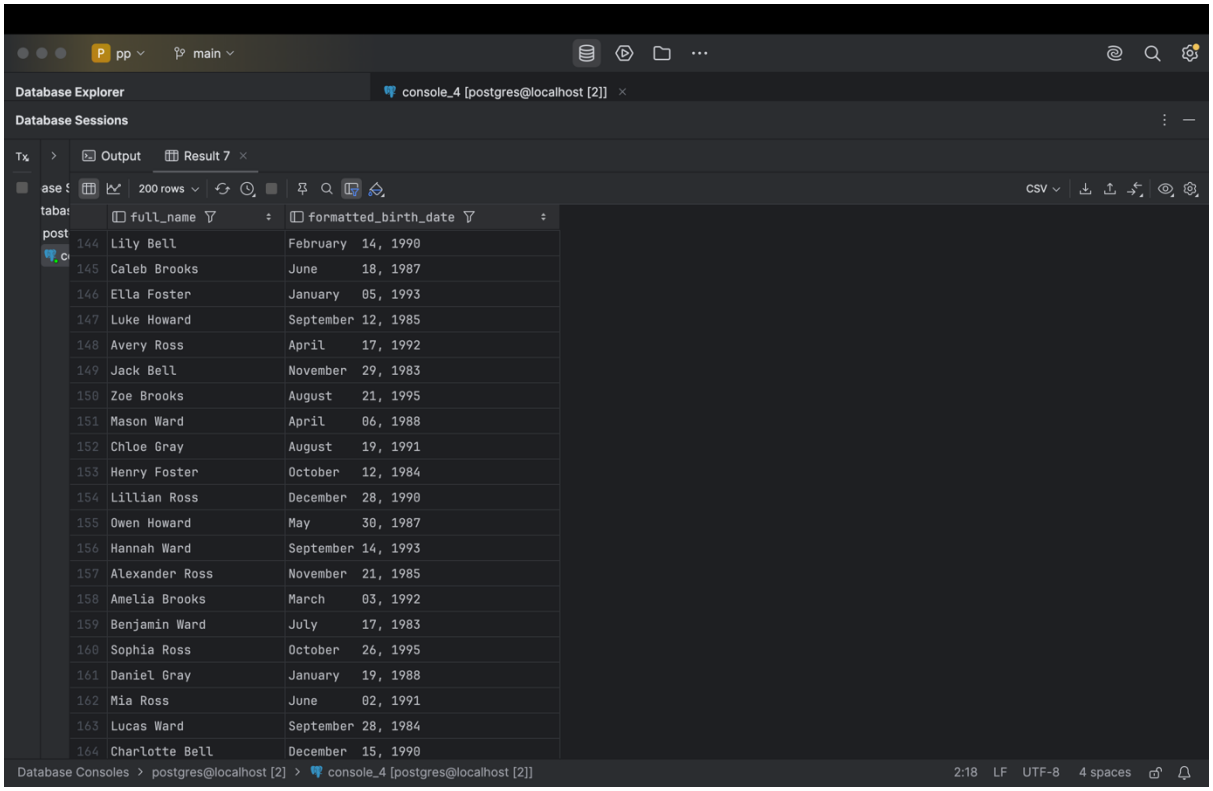

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 7
200 rows
CSV
full_name
formatted_birth_date
39 Connor Baker November 29, 1984
40 Lillian Nelson August 08, 1992
41 Dylan Carter April 03, 1985
42 Abigail Mitchell September 15, 1991
43 Samuel Perez June 27, 1989
44 Emily Roberts November 30, 1990
45 Joseph Turner March 12, 1987
46 Scarlett Phillips February 22, 1994
47 Anthony Campbell December 18, 1986
48 Aria Parker May 07, 1992
49 Matthew Evans August 16, 1983
50 Ella Edwards September 25, 1995
51 Jackson Collins February 04, 1988
52 Samantha Stewart June 11, 1991
53 Gabriel Sanchez October 23, 1984
54 Nora Morris January 19, 1990
55 Carter Rogers July 06, 1987
56 Victoria Reed March 29, 1993
57 Wyatt Cook November 14, 1985
58 Camila Morgan August 02, 1992
59 Henry Bell May 26, 1986
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
2:18 LF UTF-8 4 spaces

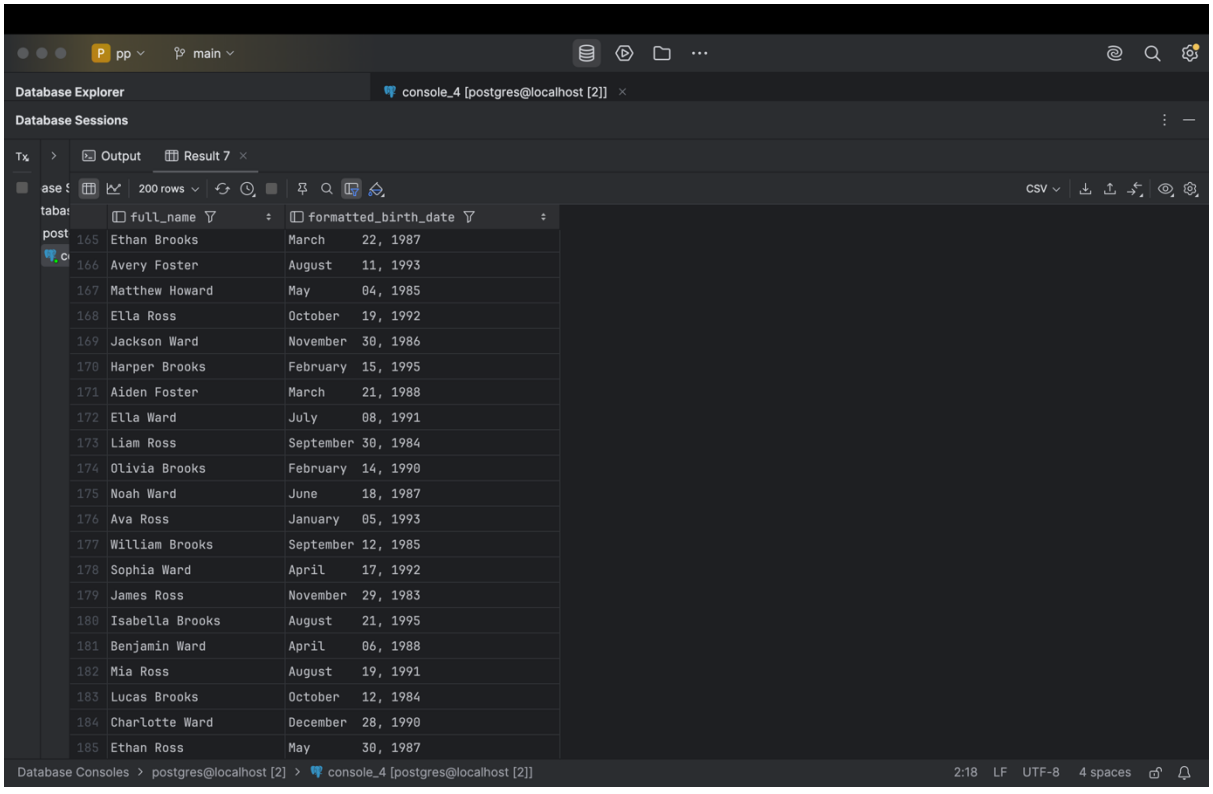

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 7
200 rows
CSV
full_name
formatted_birth_date
60 Scarlett Murphy December 15, 1995
61 Eli Bailey March 21, 1988
62 Aurora Rivera July 08, 1991
63 Andrew Cooper September 30, 1984
64 Luna Richardson February 14, 1990
65 Joshua Cox June 18, 1987
66 Zoe Howard January 05, 1993
67 Nathan Ward September 12, 1986
68 Hannah Torres April 17, 1992
69 Ryan Peterson November 29, 1983
70 Madeline Gray August 21, 1995
71 Evan Ramirez February 09, 1988
72 Grace James May 25, 1991
73 Isaac Watson August 18, 1984
74 Lily Brooks December 02, 1990
75 Caleb Kelly March 15, 1987
76 Ella Sanders July 11, 1993
77 Luke Price June 20, 1985
78 Avery Bennett September 28, 1992
79 Jack Wood November 09, 1986
80 Zoe Barnes January 23, 1995
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
2:18 LF UTF-8 4 spaces

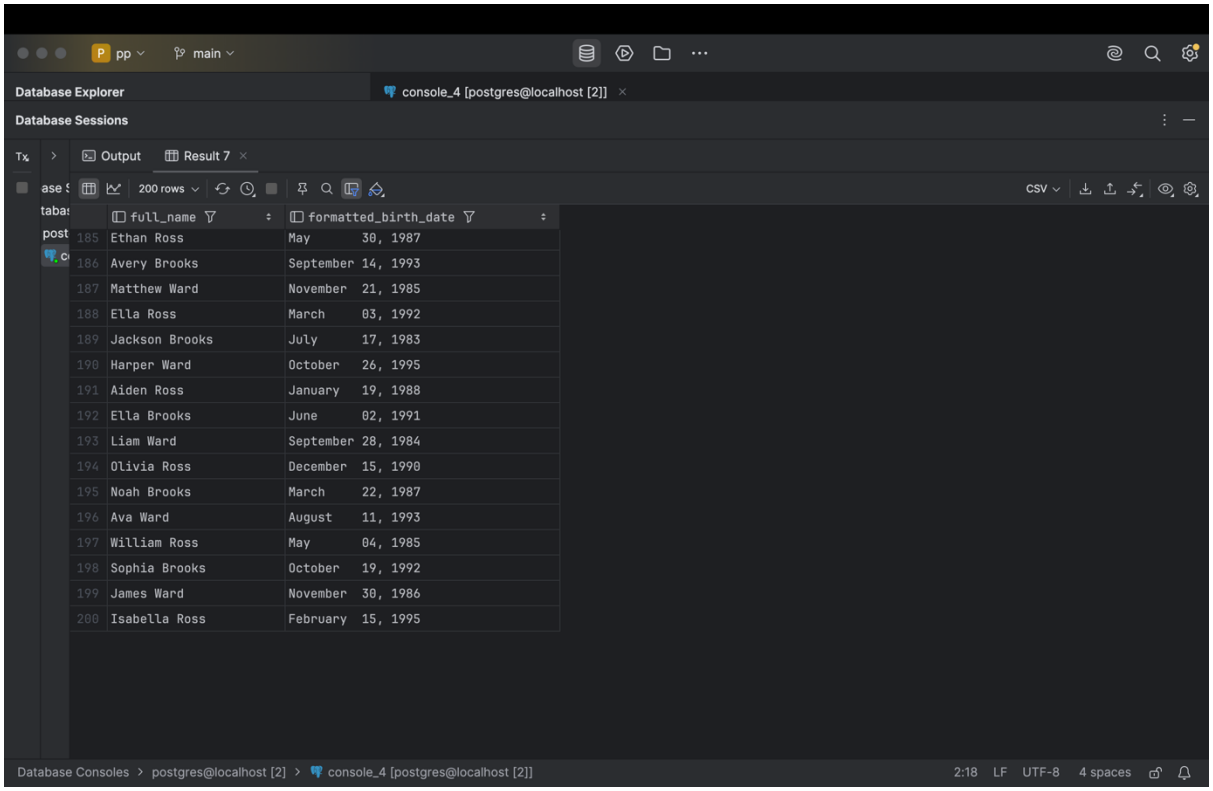

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 7
200 rows
CSV
full_name
formatted_birth_date
81 Mason Ross April 06, 1988
82 Chloe Henderson August 19, 1991
83 Henry Cole October 12, 1984
84 Lillian Jenkins February 28, 1990
85 Owen Perry May 30, 1987
86 Hannah Powell September 14, 1993
87 Alexander Long November 21, 1985
88 Amelia Patterson March 03, 1992
89 Benjamin Hughes July 17, 1983
90 Sophia Flores October 26, 1995
91 Daniel Washington January 19, 1988
92 Mia Butler June 02, 1991
93 Lucas Simmons September 28, 1984
94 Charlotte Foster December 15, 1990
95 Ethan Gonzales March 22, 1987
96 Avery Bryant August 11, 1993
97 Matthew Alexander May 04, 1985
98 Ella Russell October 19, 1992
99 Jackson Griffin November 30, 1986
100 Harper Diaz February 15, 1995
101 Aiden Hayes March 12, 1985
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
2:18 LF UTF-8 4 spaces


pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 7
200 rows
CSV
full_name
formatted_birth_date
102 Ella Fisher July 24, 1990
103 Liam Cole November 05, 1988
104 Olivia Howard January 18, 1992
105 Noah Brooks September 30, 1983
106 Ava Gonzalez June 14, 1995
107 William Henderson December 22, 1987
108 Sophia Flores April 09, 1991
109 James Bell August 17, 1989
110 Isabella Russell February 26, 1993
111 Benjamin Simmons October 03, 1984
112 Mia Ward May 11, 1996
113 Lucas Reed July 07, 1986
114 Charlotte Price September 20, 1994
115 Henry Bennett November 29, 1982
116 Amelia Gray March 08, 1990
117 Alexander Powell December 15, 1985
118 Harper Long June 25, 1992
119 Daniel Patterson September 03, 1987
120 Evelyn Hughes January 19, 1993
121 Jackson Foster April 12, 1986
122 Avery Howard July 23, 1991
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
2:18 LF UTF-8 4 spaces


pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 7
200 rows
CSV
full_name
formatted_birth_date
123 Owen Cox November 05, 1984
124 Scarlett Ward February 18, 1993
125 Ethan Fisher August 30, 1987
126 Chloe Gray January 16, 1990
127 Matthew Bell July 04, 1986
128 Lillian Reed May 20, 1993
129 Henry Powell November 29, 1984
130 Madeline Ross August 08, 1992
131 Lucas Henderson April 03, 1985
132 Victoria Brooks September 15, 1991
133 Gabriel Perry June 27, 1989
134 Nora Bailey January 19, 1990
135 Carter James July 06, 1987
136 Aurora Bennett March 29, 1993
137 Wyatt Gray November 14, 1985
138 Camila Ward August 02, 1992
139 Henry Ross May 26, 1986
140 Scarlett Henderson December 15, 1995
141 Eli Gray March 21, 1988
142 Grace Ross July 08, 1991
143 Isaac Ward September 30, 1984
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
2:18 LF UTF-8 4 spaces

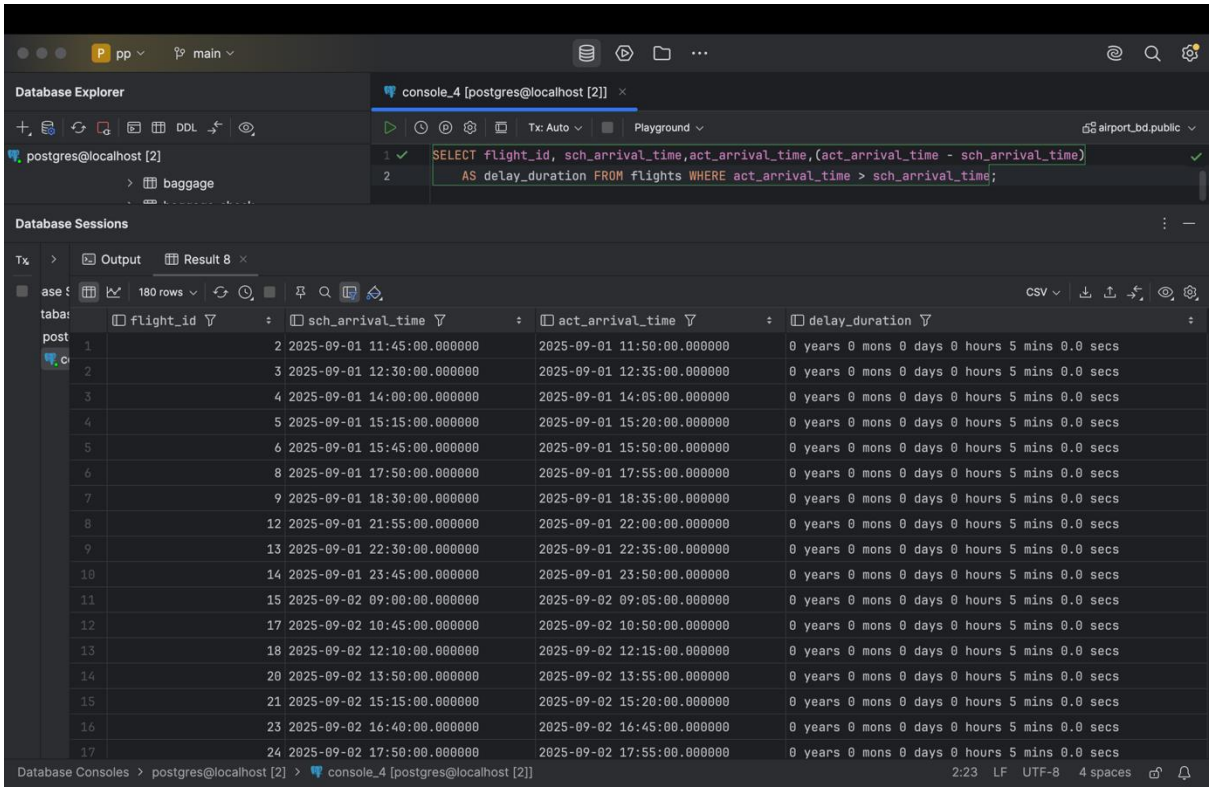

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 7
200 rows
CSV
full_name
formatted_birth_date
144 Lily Bell February 14, 1990
145 Caleb Brooks June 18, 1987
146 Ella Foster January 05, 1993
147 Luke Howard September 12, 1985
148 Avery Ross April 17, 1992
149 Jack Bell November 29, 1983
150 Zoe Brooks August 21, 1995
151 Mason Ward April 06, 1988
152 Chloe Gray August 19, 1991
153 Henry Foster October 12, 1984
154 Lillian Ross December 28, 1990
155 Owen Howard May 30, 1987
156 Hannah Ward September 14, 1993
157 Alexander Ross November 21, 1985
158 Amelia Brooks March 03, 1992
159 Benjamin Ward July 17, 1983
160 Sophia Ross October 26, 1995
161 Daniel Gray January 19, 1988
162 Mia Ross June 02, 1991
163 Lucas Ward September 28, 1984
164 Charlotte Bell December 15, 1990
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
2:18 LF UTF-8 4 spaces

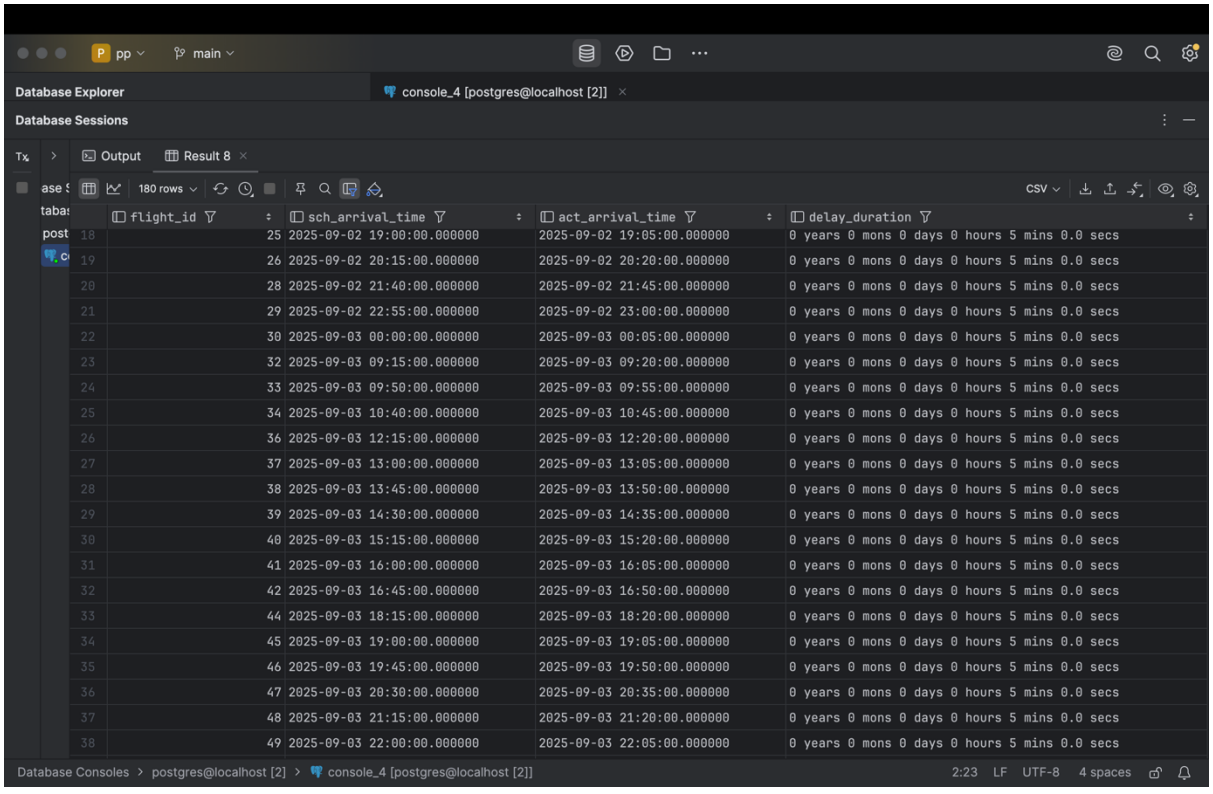

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 7
200 rows
CSV
full_name
formatted_birth_date
165 Ethan Brooks March 22, 1987
166 Avery Foster August 11, 1993
167 Matthew Howard May 04, 1985
168 Ella Ross October 19, 1992
169 Jackson Ward November 30, 1986
170 Harper Brooks February 15, 1995
171 Aiden Foster March 21, 1988
172 Ella Ward July 08, 1991
173 Liam Ross September 30, 1984
174 Olivia Brooks February 14, 1990
175 Noah Ward June 18, 1987
176 Ava Ross January 05, 1993
177 William Brooks September 12, 1985
178 Sophia Ward April 17, 1992
179 James Ross November 29, 1983
180 Isabella Brooks August 21, 1995
181 Benjamin Ward April 06, 1988
182 Mia Ross August 19, 1991
183 Lucas Brooks October 12, 1984
184 Charlotte Ward December 28, 1990
185 Ethan Ross May 30, 1987
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
2:18 LF UTF-8 4 spaces




```
SELECT first_name || ' ' || last_name AS full_name,
    TO_CHAR(date_of_birth, 'Month DD, YYYY') AS formatted_birth_date FROM
passengers;
```

6. Find flight numbers that have been delayed based on the actual arrival time.


pp
main
Database Explorer
console_4 [postgres@localhost [2]]
DDL
Tx: Auto
Playground
airport_bd.public
postgres@localhost [2]
baggage
SELECT flight_id, sch_arrival_time,act_arrival_time,(act_arrival_time - sch_arrival_time)
AS delay_duration FROM flights WHERE act_arrival_time > sch_arrival_time;
Database Sessions
Output
Result 8
180 rows
CSV
flight_id
sch_arrival_time
act_arrival_time
delay_duration
1 2 2025-09-01 11:45:00.000000 2025-09-01 11:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
2 3 2025-09-01 12:30:00.000000 2025-09-01 12:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
3 4 2025-09-01 14:00:00.000000 2025-09-01 14:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
4 5 2025-09-01 15:15:00.000000 2025-09-01 15:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
5 6 2025-09-01 15:45:00.000000 2025-09-01 15:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
6 8 2025-09-01 17:50:00.000000 2025-09-01 17:55:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
7 9 2025-09-01 18:30:00.000000 2025-09-01 18:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
8 12 2025-09-01 21:55:00.000000 2025-09-01 22:00:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
9 13 2025-09-01 22:30:00.000000 2025-09-01 22:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
10 14 2025-09-01 23:45:00.000000 2025-09-01 23:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
11 15 2025-09-02 09:00:00.000000 2025-09-02 09:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
12 17 2025-09-02 10:45:00.000000 2025-09-02 10:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
13 18 2025-09-02 12:10:00.000000 2025-09-02 12:15:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
14 20 2025-09-02 13:50:00.000000 2025-09-02 13:55:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
15 21 2025-09-02 15:15:00.000000 2025-09-02 15:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
16 23 2025-09-02 16:40:00.000000 2025-09-02 16:45:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
17 24 2025-09-02 17:50:00.000000 2025-09-02 17:55:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
2:23 LF UTF-8 4 spaces


pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 8
180 rows
CSV
flight_id
sch_arrival_time
act_arrival_time
delay_duration
18 25 2025-09-02 19:00:00.000000 2025-09-02 19:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
19 26 2025-09-02 20:15:00.000000 2025-09-02 20:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
20 28 2025-09-02 21:40:00.000000 2025-09-02 21:45:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
21 29 2025-09-02 22:55:00.000000 2025-09-02 23:00:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
22 30 2025-09-03 00:00:00.000000 2025-09-03 00:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
23 32 2025-09-03 09:15:00.000000 2025-09-03 09:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
24 33 2025-09-03 09:50:00.000000 2025-09-03 09:55:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
25 34 2025-09-03 10:40:00.000000 2025-09-03 10:45:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
26 36 2025-09-03 12:15:00.000000 2025-09-03 12:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
27 37 2025-09-03 13:00:00.000000 2025-09-03 13:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
28 38 2025-09-03 13:45:00.000000 2025-09-03 13:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
29 39 2025-09-03 14:30:00.000000 2025-09-03 14:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
30 40 2025-09-03 15:15:00.000000 2025-09-03 15:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
31 41 2025-09-03 16:00:00.000000 2025-09-03 16:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
32 42 2025-09-03 16:45:00.000000 2025-09-03 16:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
33 44 2025-09-03 18:15:00.000000 2025-09-03 18:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
34 45 2025-09-03 19:00:00.000000 2025-09-03 19:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
35 46 2025-09-03 19:45:00.000000 2025-09-03 19:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
36 47 2025-09-03 20:30:00.000000 2025-09-03 20:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
37 48 2025-09-03 21:15:00.000000 2025-09-03 21:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
38 49 2025-09-03 22:00:00.000000 2025-09-03 22:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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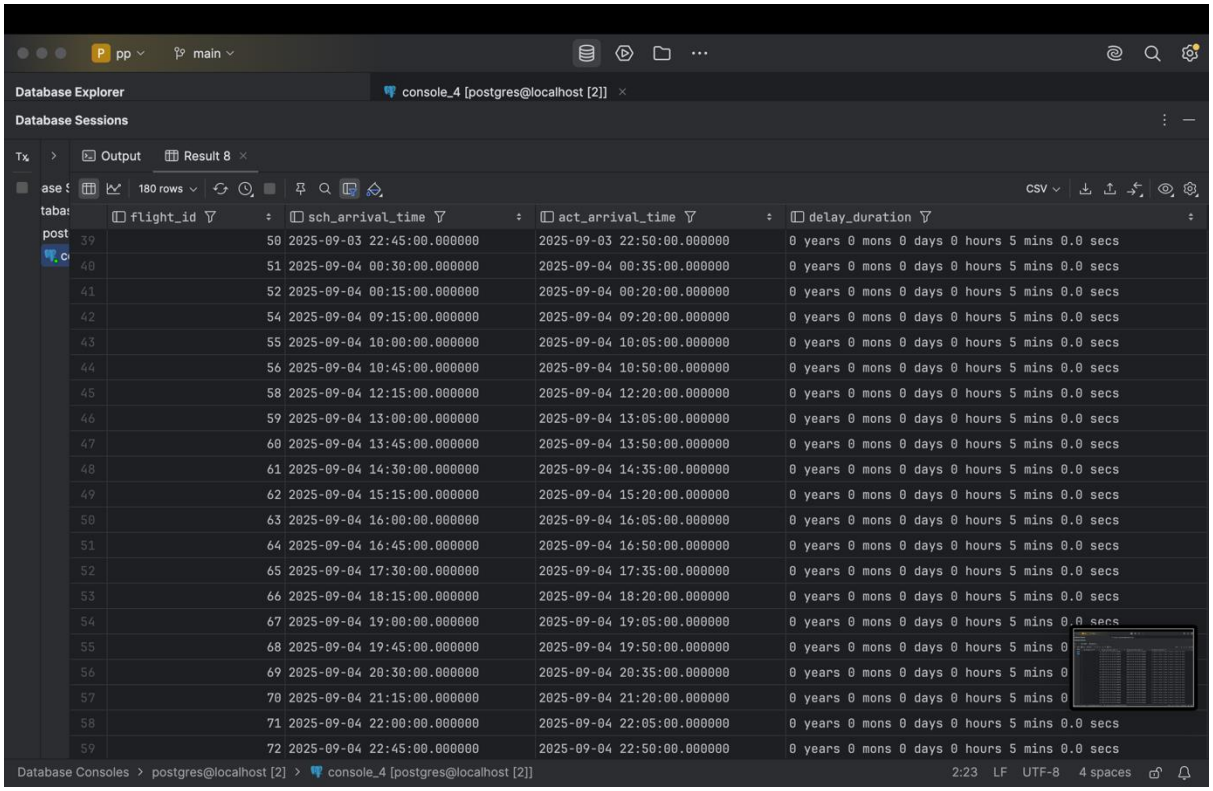
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Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 8
180 rows
CSV
flight_id
sch_arrival_time
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50 2025-09-03 22:45:00.000000 2025-09-03 22:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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71 2025-09-04 22:00:00.000000 2025-09-04 22:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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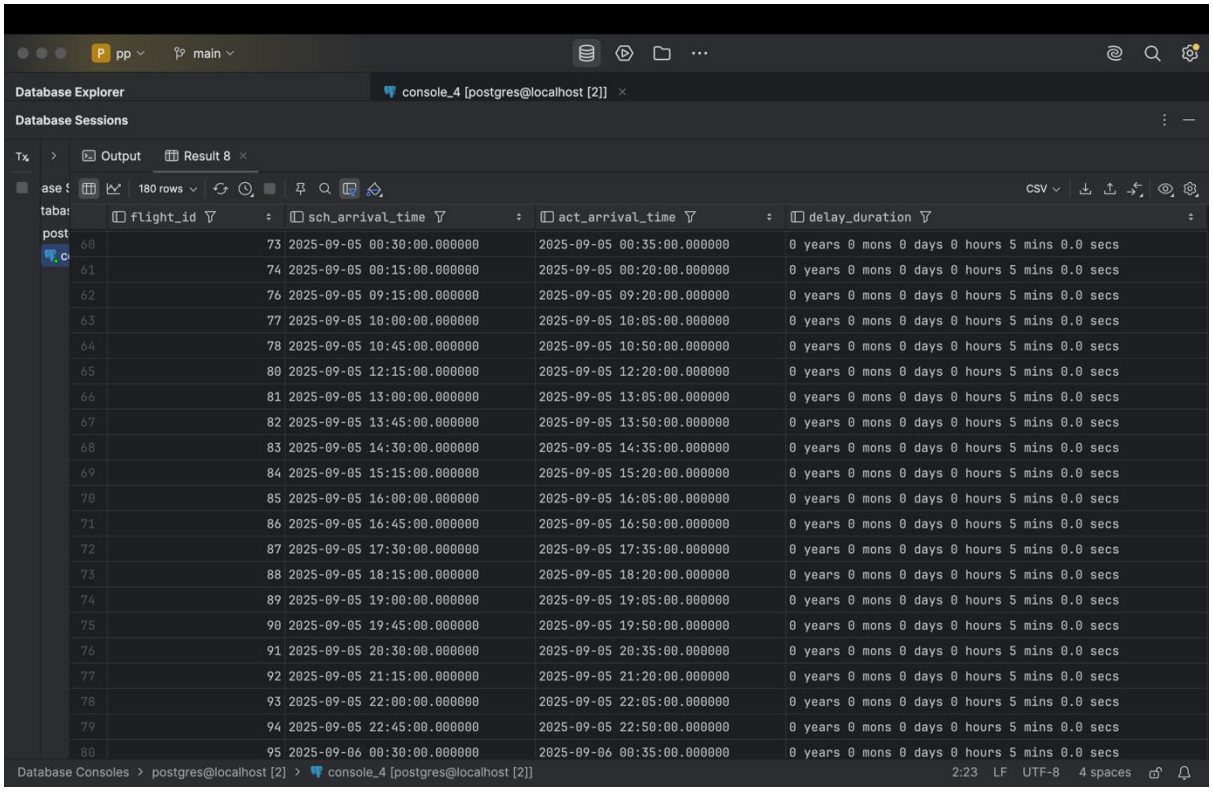
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Database Explorer
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74 2025-09-05 00:15:00.000000 2025-09-05 00:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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95 2025-09-06 00:30:00.000000 2025-09-06 00:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
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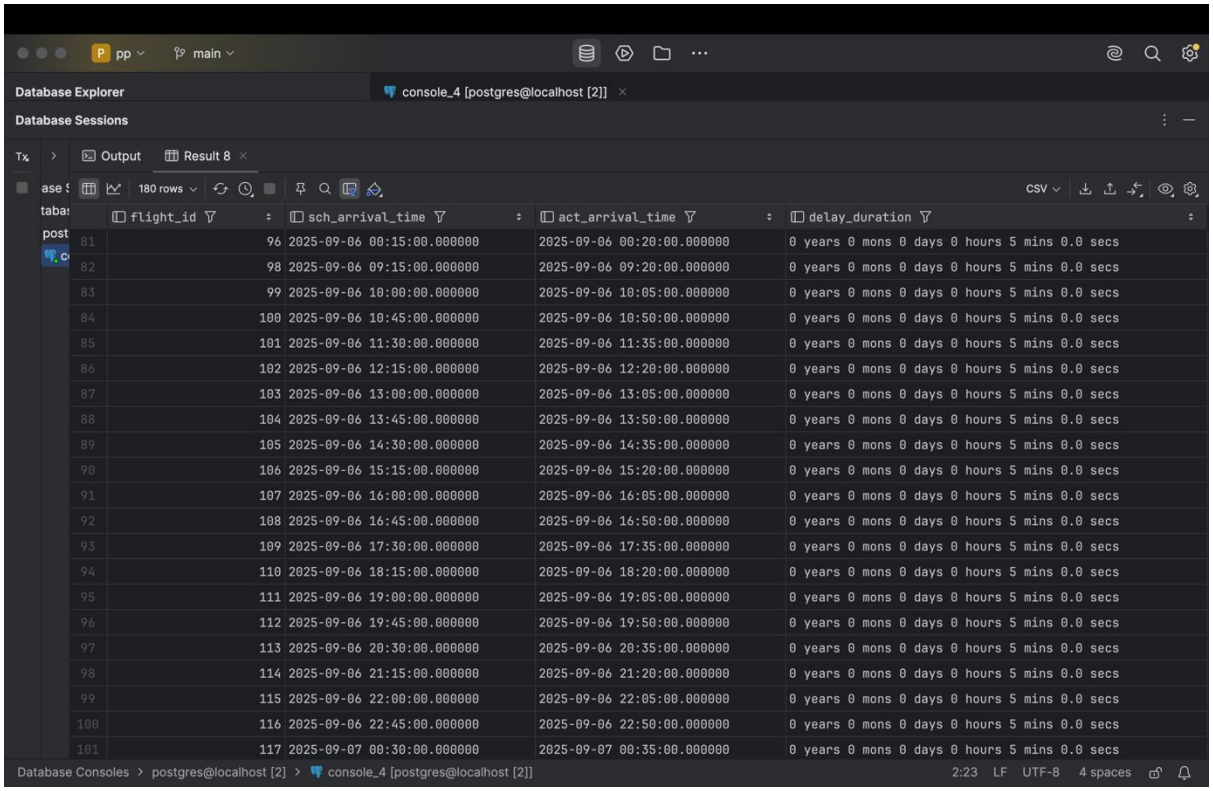
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Database Explorer
console_4 [postgres@localhost [2]]
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180 rows
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flight_id
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82 98 2025-09-06 09:15:00.000000 2025-09-06 09:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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92 108 2025-09-06 16:45:00.000000 2025-09-06 16:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
93 109 2025-09-06 17:30:00.000000 2025-09-06 17:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
94 110 2025-09-06 18:15:00.000000 2025-09-06 18:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
95 111 2025-09-06 19:00:00.000000 2025-09-06 19:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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97 113 2025-09-06 20:30:00.000000 2025-09-06 20:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
98 114 2025-09-06 21:15:00.000000 2025-09-06 21:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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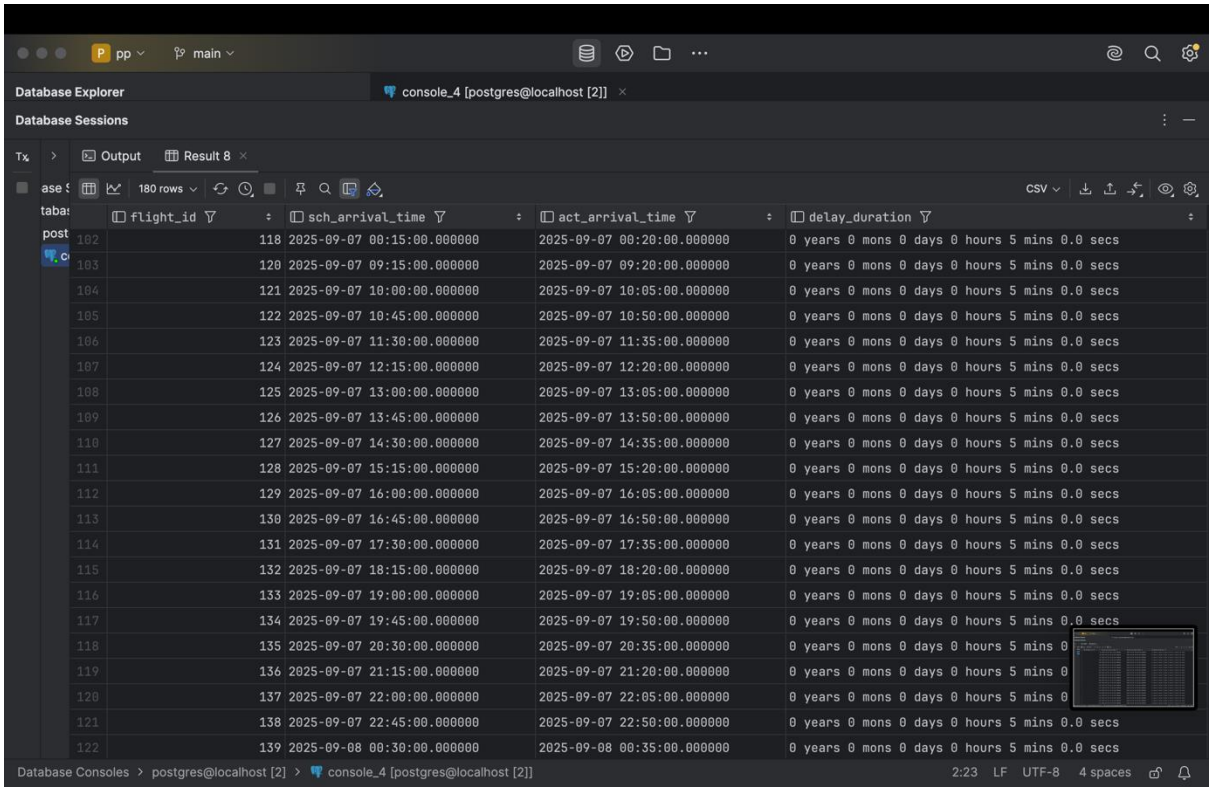
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Database Explorer
console_4 [postgres@localhost [2]]
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flight_id
sch_arrival_time
act_arrival_time
delay_duration
102 118 2025-09-07 00:15:00.000000 2025-09-07 00:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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111 128 2025-09-07 15:15:00.000000 2025-09-07 15:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
112 129 2025-09-07 16:00:00.000000 2025-09-07 16:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
113 130 2025-09-07 16:45:00.000000 2025-09-07 16:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
114 131 2025-09-07 17:30:00.000000 2025-09-07 17:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
115 132 2025-09-07 18:15:00.000000 2025-09-07 18:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
116 133 2025-09-07 19:00:00.000000 2025-09-07 19:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
117 134 2025-09-07 19:45:00.000000 2025-09-07 19:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
118 135 2025-09-07 20:30:00.000000 2025-09-07 20:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0
119 136 2025-09-07 21:15:00.000000 2025-09-07 21:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0
120 137 2025-09-07 22:00:00.000000 2025-09-07 22:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0
121 138 2025-09-07 22:45:00.000000 2025-09-07 22:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
122 139 2025-09-08 00:30:00.000000 2025-09-08 00:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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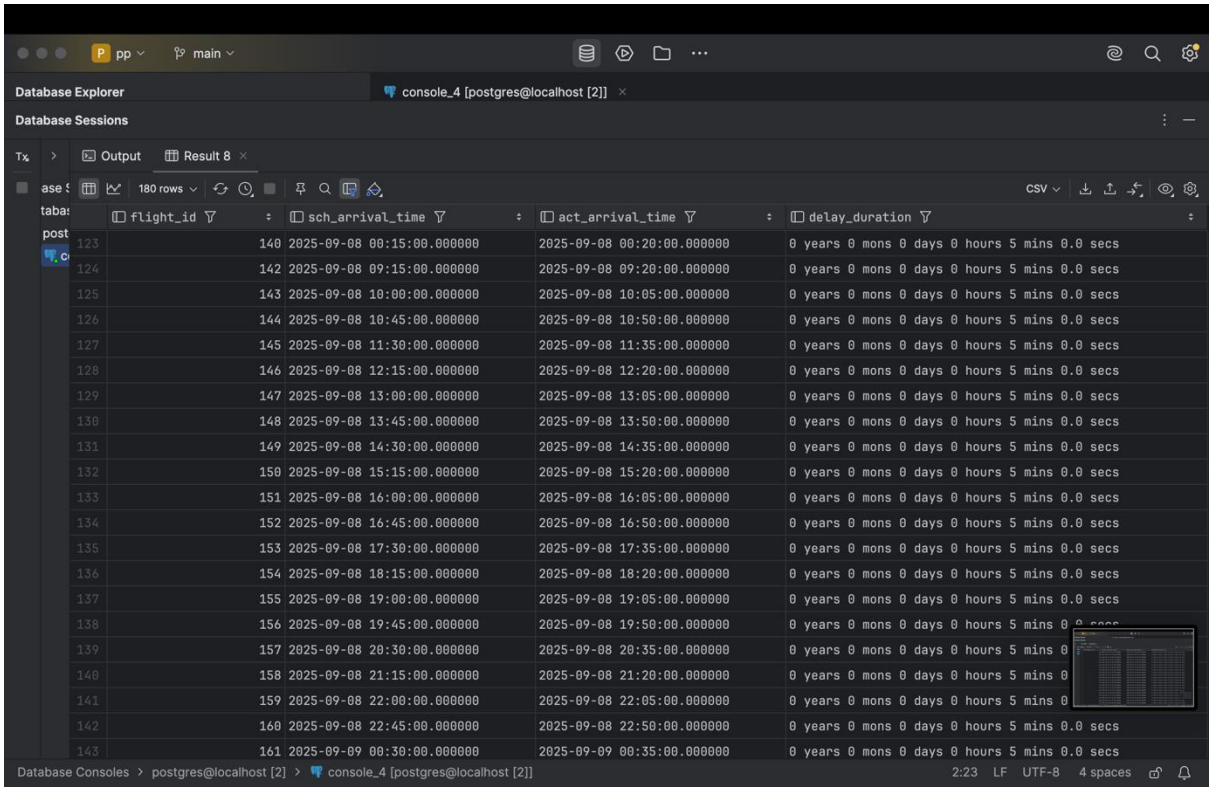
pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 8
180 rows
CSV
flight_id
sch_arrival_time
act_arrival_time
delay_duration
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124 142 2025-09-08 09:15:00.000000 2025-09-08 09:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
125 143 2025-09-08 10:00:00.000000 2025-09-08 10:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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130 148 2025-09-08 13:45:00.000000 2025-09-08 13:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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133 151 2025-09-08 16:00:00.000000 2025-09-08 16:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
134 152 2025-09-08 16:45:00.000000 2025-09-08 16:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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136 154 2025-09-08 18:15:00.000000 2025-09-08 18:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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140 158 2025-09-08 21:15:00.000000 2025-09-08 21:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0
141 159 2025-09-08 22:00:00.000000 2025-09-08 22:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0
142 160 2025-09-08 22:45:00.000000 2025-09-08 22:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
143 161 2025-09-09 00:30:00.000000 2025-09-09 00:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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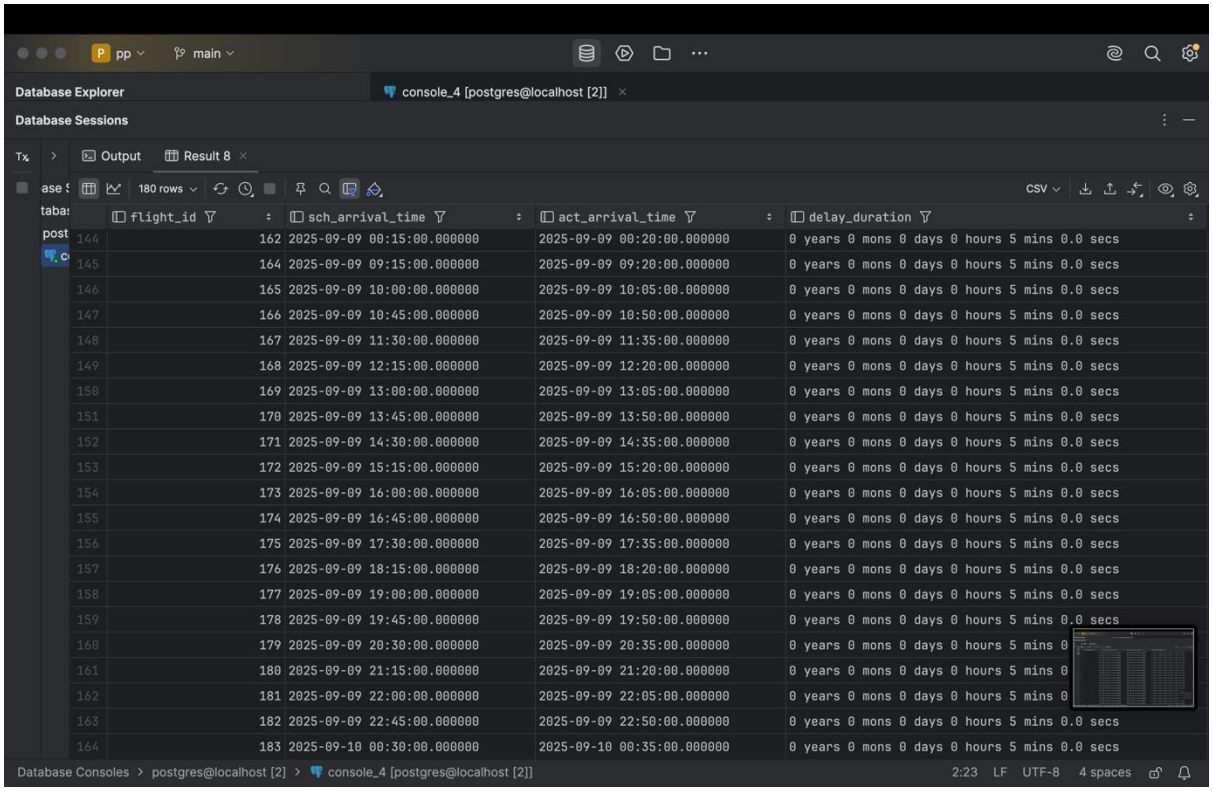
pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 8
180 rows
CSV
flight_id
sch_arrival_time
act_arrival_time
delay_duration
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145 164 2025-09-09 09:15:00.000000 2025-09-09 09:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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148 167 2025-09-09 11:30:00.000000 2025-09-09 11:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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151 170 2025-09-09 13:45:00.000000 2025-09-09 13:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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153 172 2025-09-09 15:15:00.000000 2025-09-09 15:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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155 174 2025-09-09 16:45:00.000000 2025-09-09 16:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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159 178 2025-09-09 19:45:00.000000 2025-09-09 19:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
160 179 2025-09-09 20:30:00.000000 2025-09-09 20:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0
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162 181 2025-09-09 22:00:00.000000 2025-09-09 22:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0
163 182 2025-09-09 22:45:00.000000 2025-09-09 22:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
164 183 2025-09-10 00:30:00.000000 2025-09-10 00:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
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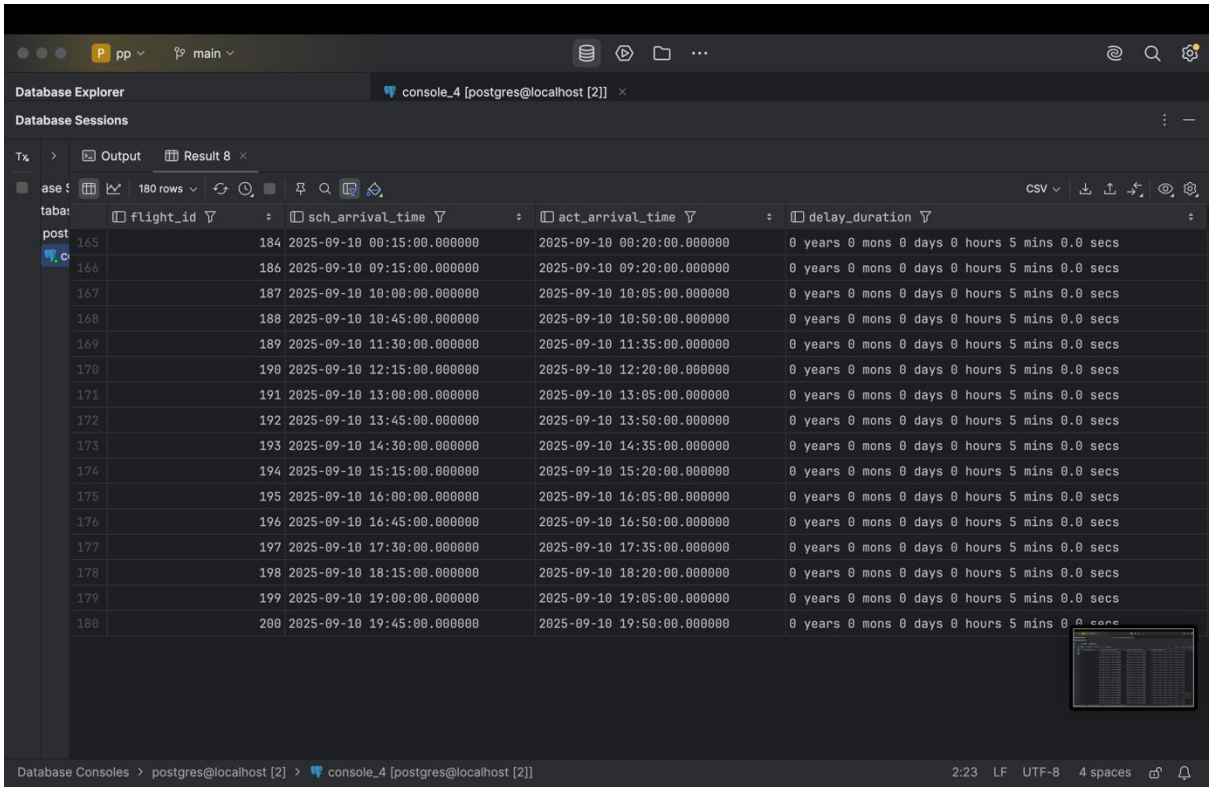
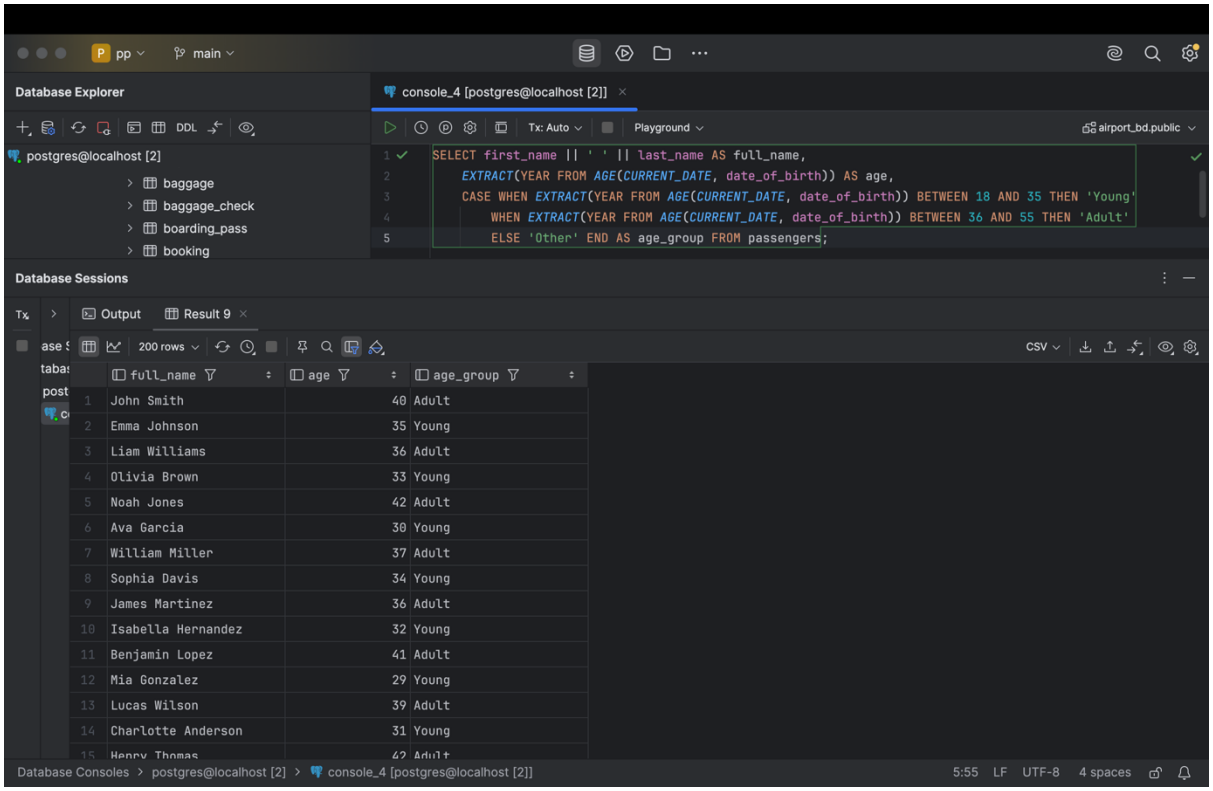
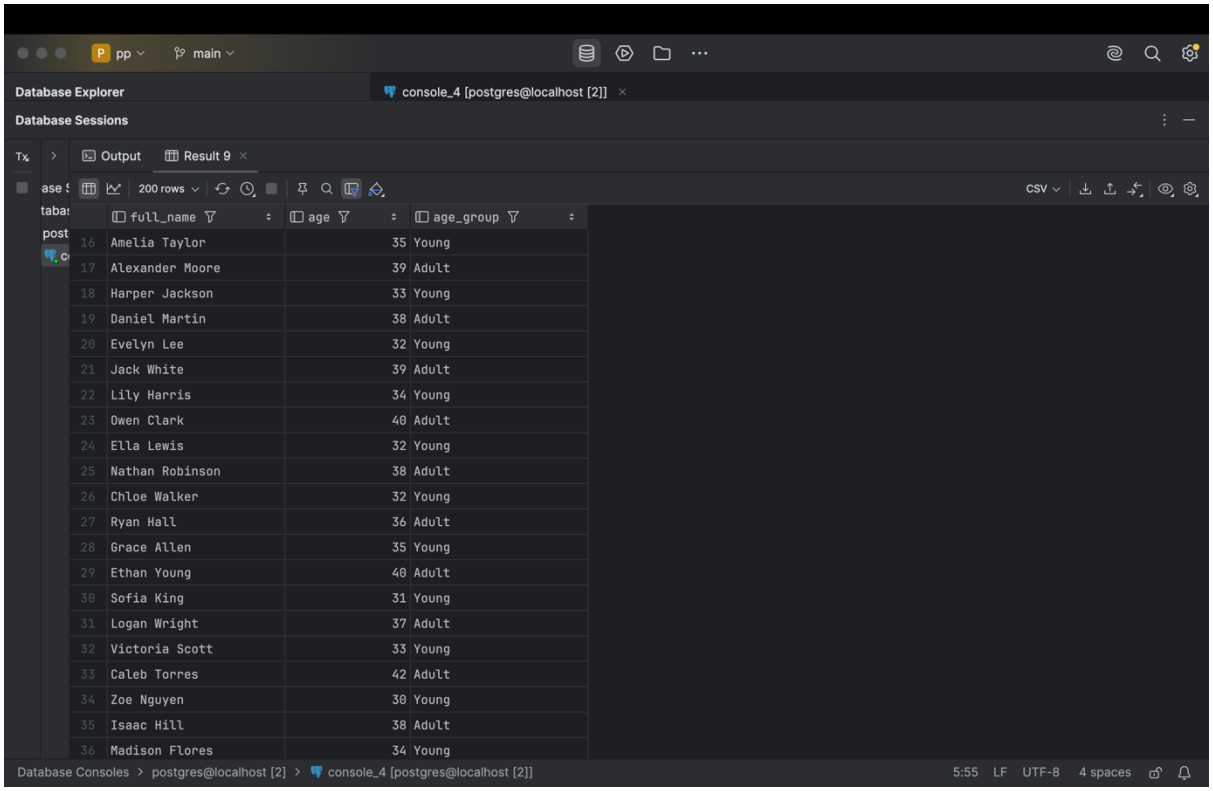
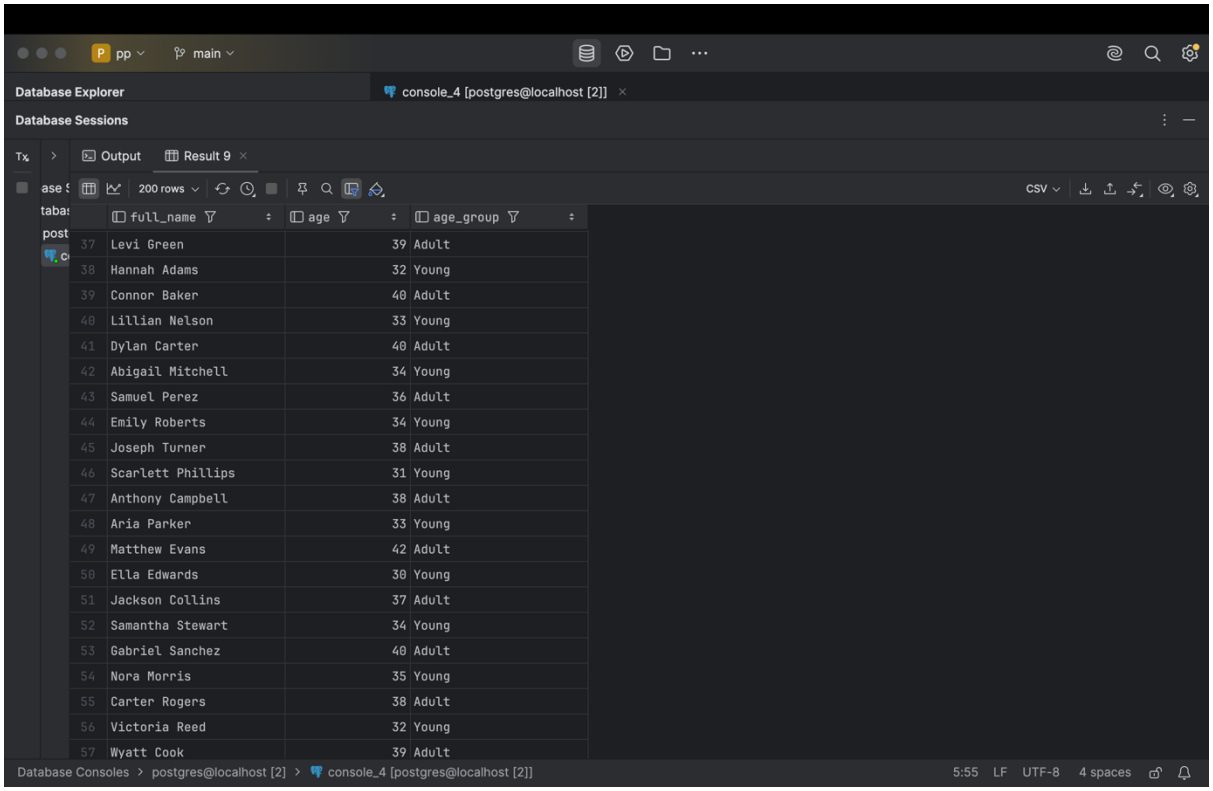


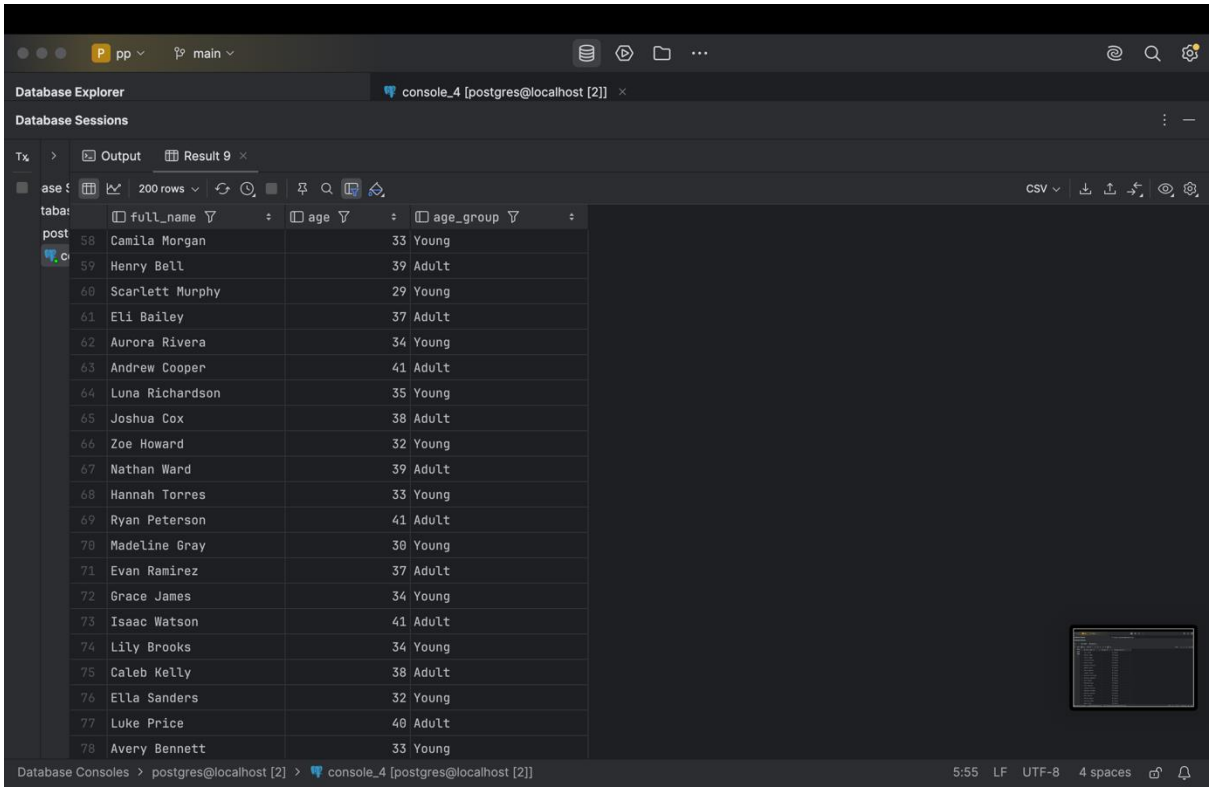

```
SELECT flight_id, sch_arrival_time,act_arrival_time,(act_arrival_time -
sch_arrival_time)
    AS delay_duration FROM flights WHERE act_arrival_time >
sch_arrival_time;
```

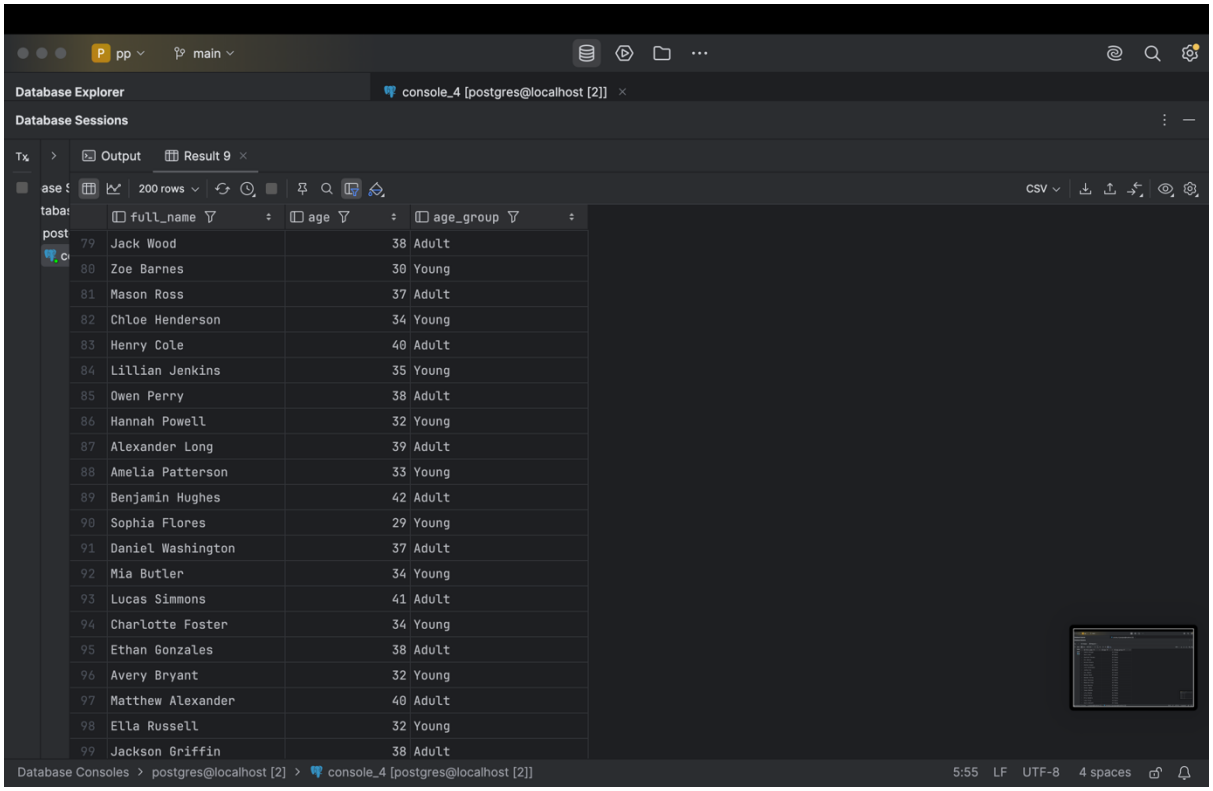
7. Create a query that divides passengers into age groups like ‘Young’ and ‘Adult’ based on their birth date. Young passengers age between 18 and 35, Adult passengers age between 36 and 55.

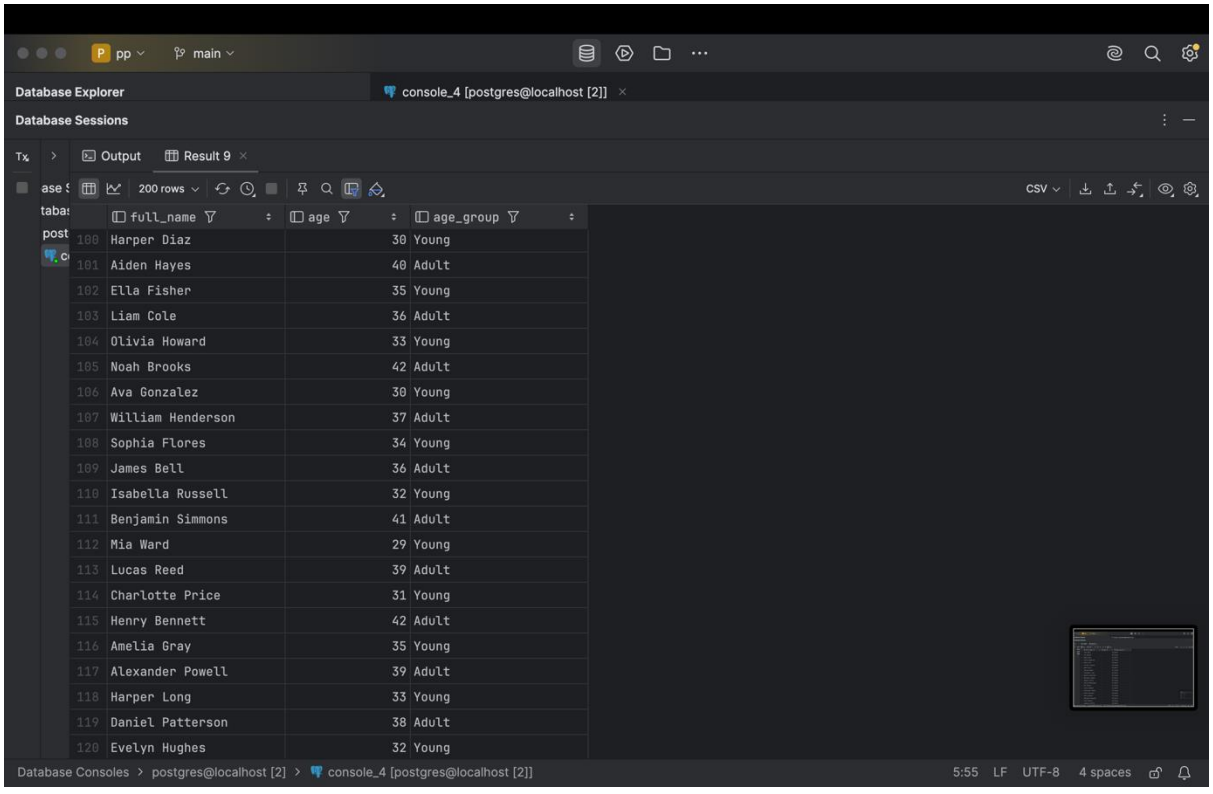

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
DDL
Tx: Auto
Playground
airport_bd.public
postgres@localhost [2]
baggage
baggage_check
boarding_pass
booking
SELECT first_name || ' ' || last_name AS full_name,
EXTRACT(YEAR FROM AGE(CURRENT_DATE, date_of_birth)) AS age,
CASE WHEN EXTRACT(YEAR FROM AGE(CURRENT_DATE, date_of_birth)) BETWEEN 18 AND 35 THEN 'Young'
WHEN EXTRACT(YEAR FROM AGE(CURRENT_DATE, date_of_birth)) BETWEEN 36 AND 55 THEN 'Adult'
ELSE 'Other' END AS age_group FROM passengers;
Database Sessions
Output
Result 9
200 rows
CSV
full_name
age
age_group
1 John Smith 40 Adult
2 Emma Johnson 35 Young
3 Liam Williams 36 Adult
4 Olivia Brown 33 Young
5 Noah Jones 42 Adult
6 Ava Garcia 30 Young
7 William Miller 37 Adult
8 Sophia Davis 34 Young
9 James Martinez 36 Adult
10 Isabella Hernandez 32 Young
11 Benjamin Lopez 41 Adult
12 Mia Gonzalez 29 Young
13 Lucas Wilson 39 Adult
14 Charlotte Anderson 31 Young
Database Consoles
postgres@localhost [2]
console_4 [postgres@localhost [2]]
5:55
LF
UTF-8
4 spaces

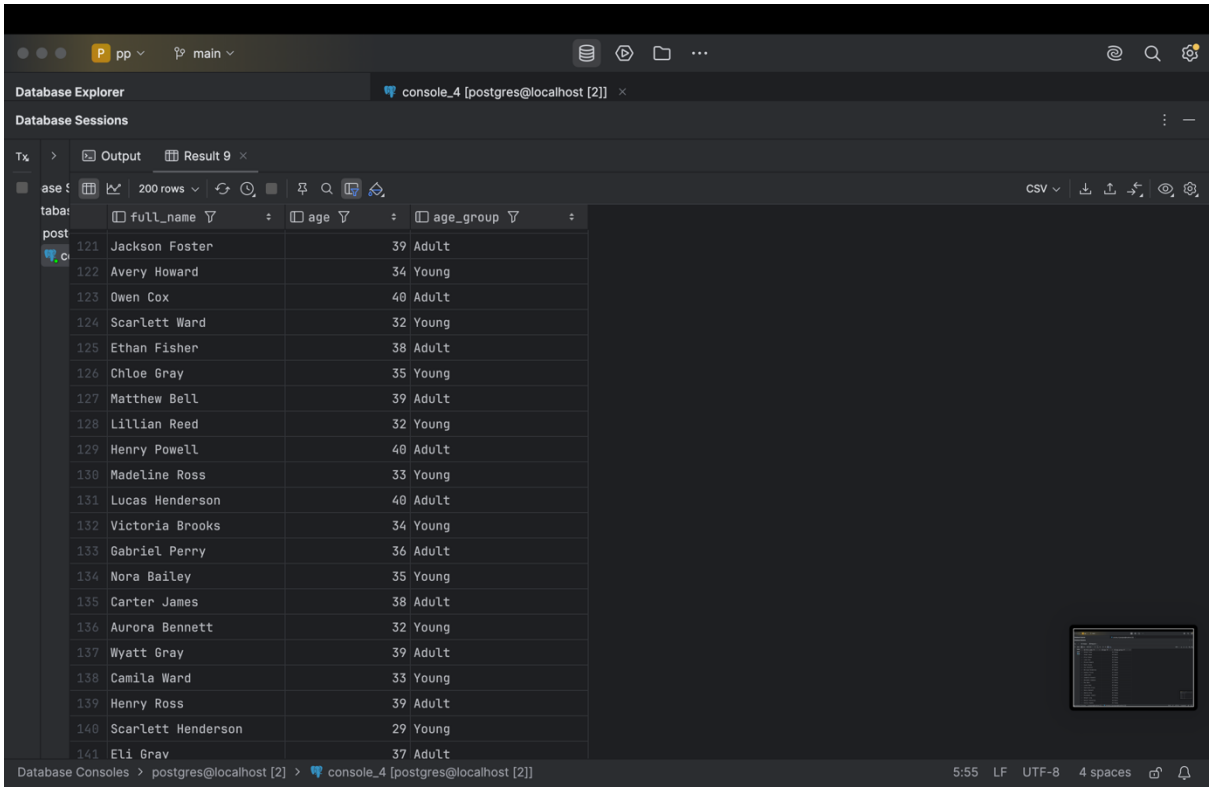

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 9
200 rows
CSV
full_name
age
age_group
16 Amelia Taylor 35 Young
17 Alexander Moore 39 Adult
18 Harper Jackson 33 Young
19 Daniel Martin 38 Adult
20 Evelyn Lee 32 Young
21 Jack White 39 Adult
22 Lily Harris 34 Young
23 Owen Clark 40 Adult
24 Ella Lewis 32 Young
25 Nathan Robinson 38 Adult
26 Chloe Walker 32 Young
27 Ryan Hall 36 Adult
28 Grace Allen 35 Young
29 Ethan Young 40 Adult
30 Sofia King 31 Young
31 Logan Wright 37 Adult
32 Victoria Scott 33 Young
33 Caleb Torres 42 Adult
34 Zoe Nguyen 30 Young
35 Isaac Hill 38 Adult
36 Madison Flores 34 Young
Database Consoles
postgres@localhost [2]
console_4 [postgres@localhost [2]]
5:55
LF
UTF-8
4 spaces

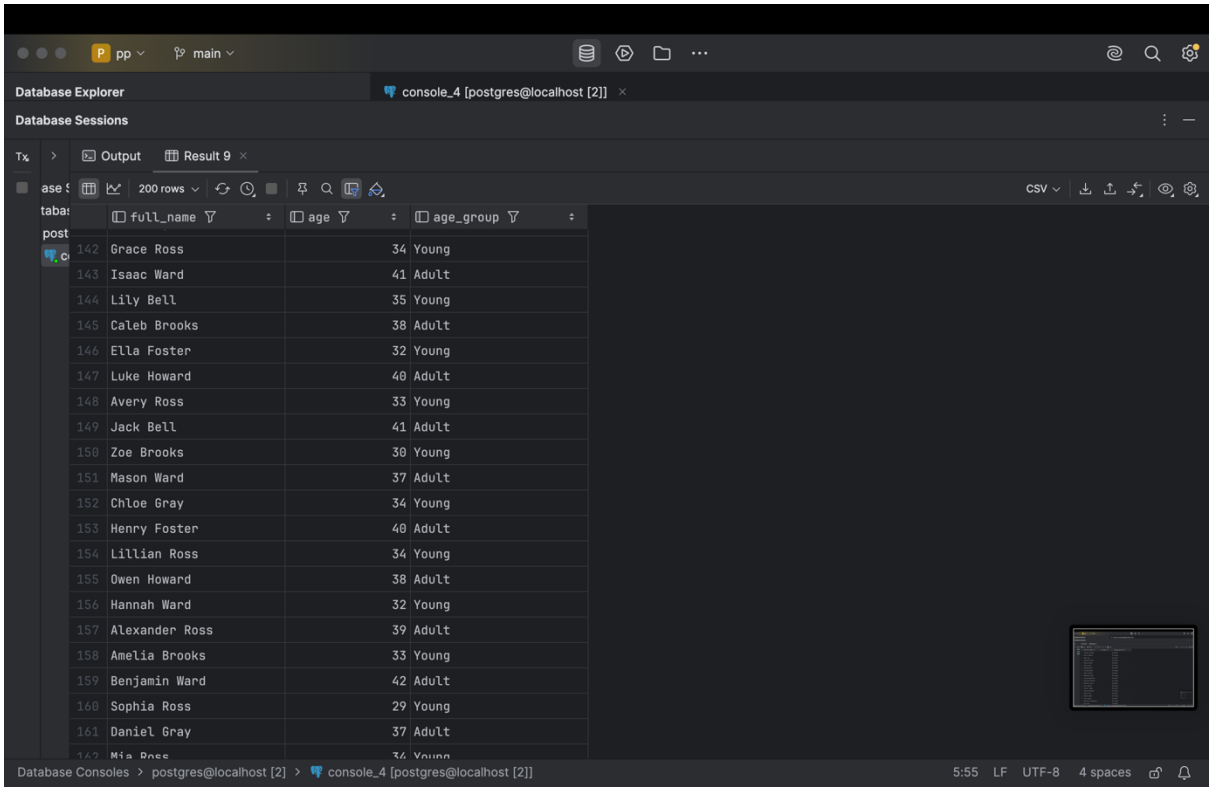

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 9
200 rows
CSV
full_name
age
age_group
37 Levi Green 39 Adult
38 Hannah Adams 32 Young
39 Connor Baker 40 Adult
40 Lillian Nelson 33 Young
41 Dylan Carter 40 Adult
42 Abigail Mitchell 34 Young
43 Samuel Perez 36 Adult
44 Emily Roberts 34 Young
45 Joseph Turner 38 Adult
46 Scarlett Phillips 31 Young
47 Anthony Campbell 38 Adult
48 Aria Parker 33 Young
49 Matthew Evans 42 Adult
50 Ella Edwards 30 Young
51 Jackson Collins 37 Adult
52 Samantha Stewart 34 Young
53 Gabriel Sanchez 40 Adult
54 Nora Morris 35 Young
55 Carter Rogers 38 Adult
56 Victoria Reed 32 Young
57 Wyatt Cook 39 Adult
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
5:55 LF UTF-8 4 spaces

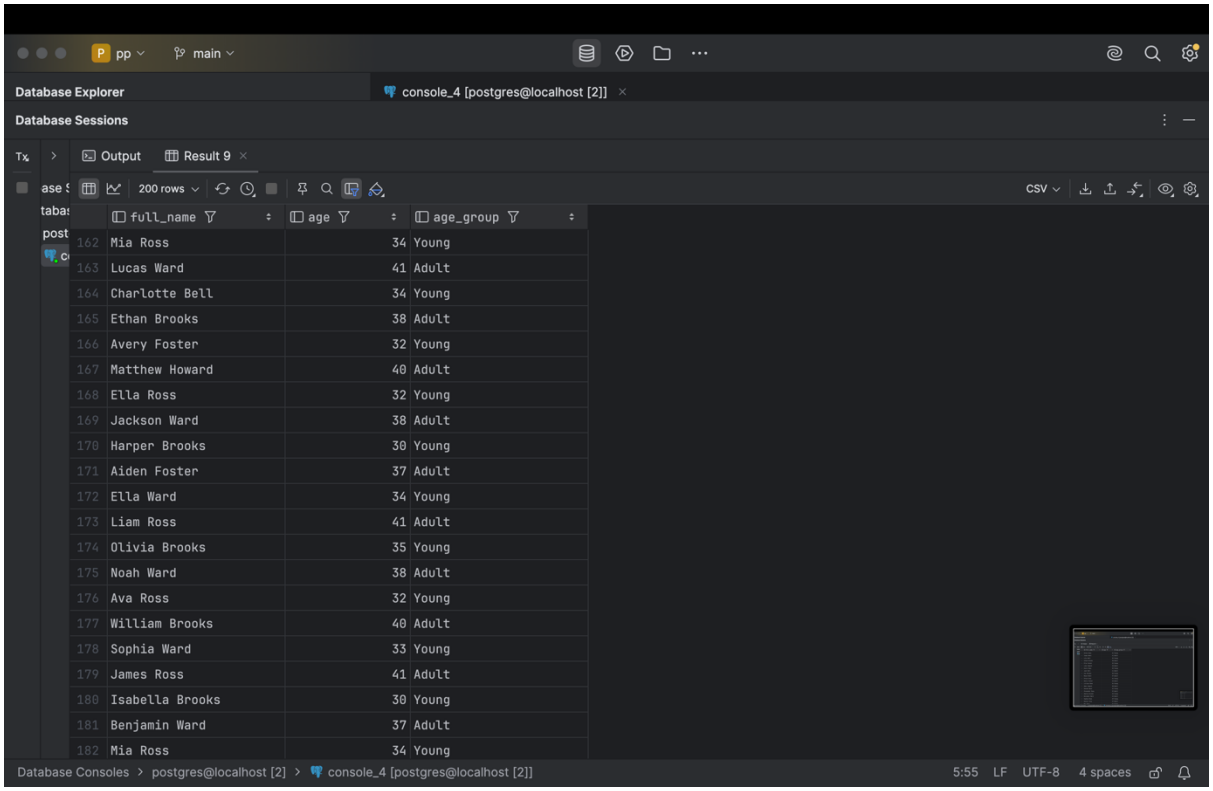

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 9
200 rows
CSV
full_name
age
age_group
58 Camila Morgan 33 Young
59 Henry Bell 39 Adult
60 Scarlett Murphy 29 Young
61 Eli Bailey 37 Adult
62 Aurora Rivera 34 Young
63 Andrew Cooper 41 Adult
64 Luna Richardson 35 Young
65 Joshua Cox 38 Adult
66 Zoe Howard 32 Young
67 Nathan Ward 39 Adult
68 Hannah Torres 33 Young
69 Ryan Peterson 41 Adult
70 Madeline Gray 30 Young
71 Evan Ramirez 37 Adult
72 Grace James 34 Young
73 Isaac Watson 41 Adult
74 Lily Brooks 34 Young
75 Caleb Kelly 38 Adult
76 Ella Sanders 32 Young
77 Luke Price 40 Adult
78 Avery Bennett 33 Young
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
5:55 LF UTF-8 4 spaces

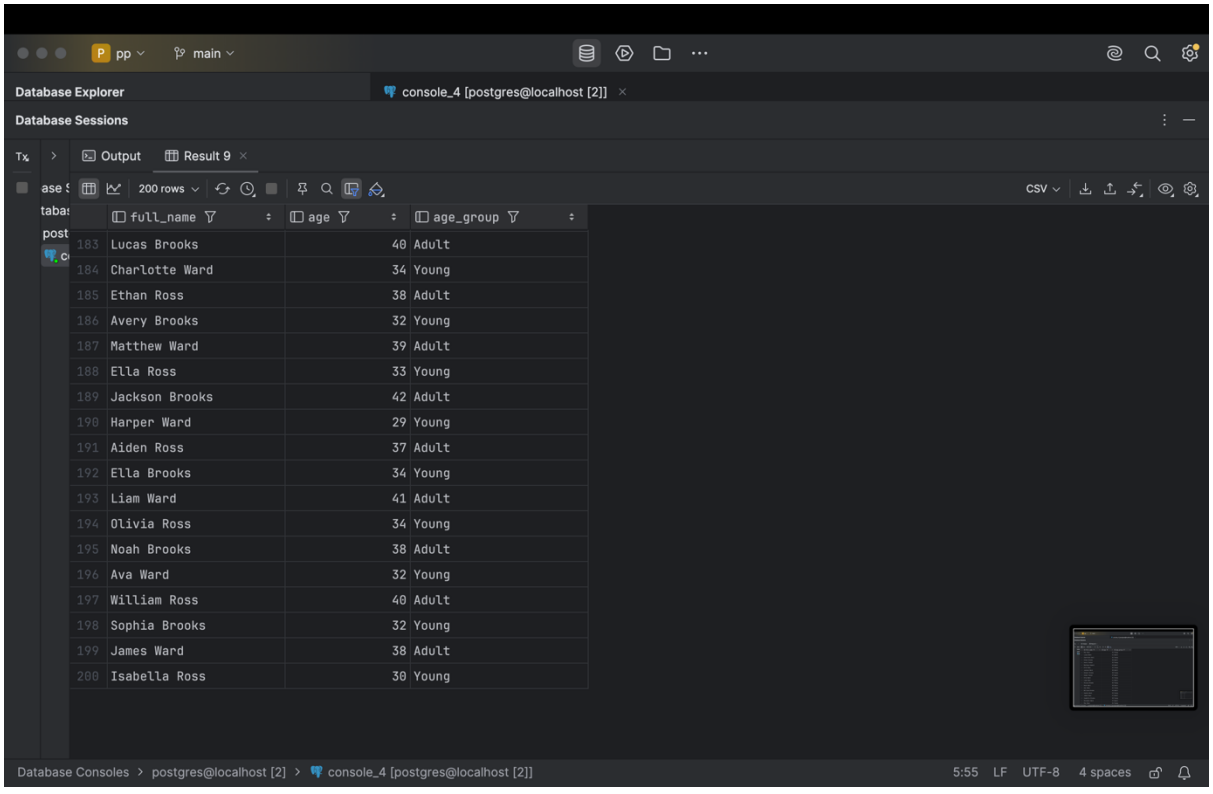

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 9
200 rows
CSV
full_name
age
age_group
79 Jack Wood 38 Adult
80 Zoe Barnes 30 Young
81 Mason Ross 37 Adult
82 Chloe Henderson 34 Young
83 Henry Cole 40 Adult
84 Lillian Jenkins 35 Young
85 Owen Perry 38 Adult
86 Hannah Powell 32 Young
87 Alexander Long 39 Adult
88 Amelia Patterson 33 Young
89 Benjamin Hughes 42 Adult
90 Sophia Flores 29 Young
91 Daniel Washington 37 Adult
92 Mia Butler 34 Young
93 Lucas Simmons 41 Adult
94 Charlotte Foster 34 Young
95 Ethan Gonzales 38 Adult
96 Avery Bryant 32 Young
97 Matthew Alexander 40 Adult
98 Ella Russell 32 Young
99 Jackson Griffin 38 Adult
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
5:55 LF UTF-8 4 spaces


pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 9
200 rows
CSV
full_name
age
age_group
100 Harper Diaz 30 Young
101 Aiden Hayes 40 Adult
102 Ella Fisher 35 Young
103 Liam Cole 36 Adult
104 Olivia Howard 33 Young
105 Noah Brooks 42 Adult
106 Ava Gonzalez 30 Young
107 William Henderson 37 Adult
108 Sophia Flores 34 Young
109 James Bell 36 Adult
110 Isabella Russell 32 Young
111 Benjamin Simmons 41 Adult
112 Mia Ward 29 Young
113 Lucas Reed 39 Adult
114 Charlotte Price 31 Young
115 Henry Bennett 42 Adult
116 Amelia Gray 35 Young
117 Alexander Powell 39 Adult
118 Harper Long 33 Young
119 Daniel Patterson 38 Adult
120 Evelyn Hughes 32 Young
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
5:55 LF UTF-8 4 spaces


pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 9
200 rows
CSV
full_name
age
age_group
121 Jackson Foster 39 Adult
122 Avery Howard 34 Young
123 Owen Cox 40 Adult
124 Scarlett Ward 32 Young
125 Ethan Fisher 38 Adult
126 Chloe Gray 35 Young
127 Matthew Bell 39 Adult
128 Lillian Reed 32 Young
129 Henry Powell 40 Adult
130 Madeline Ross 33 Young
131 Lucas Henderson 40 Adult
132 Victoria Brooks 34 Young
133 Gabriel Perry 36 Adult
134 Nora Bailey 35 Young
135 Carter James 38 Adult
136 Aurora Bennett 32 Young
137 Wyatt Gray 39 Adult
138 Camila Ward 33 Young
139 Henry Ross 39 Adult
140 Scarlett Henderson 29 Young
141 Eli Gray 37 Adult
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
5:55 LF UTF-8 4 spaces

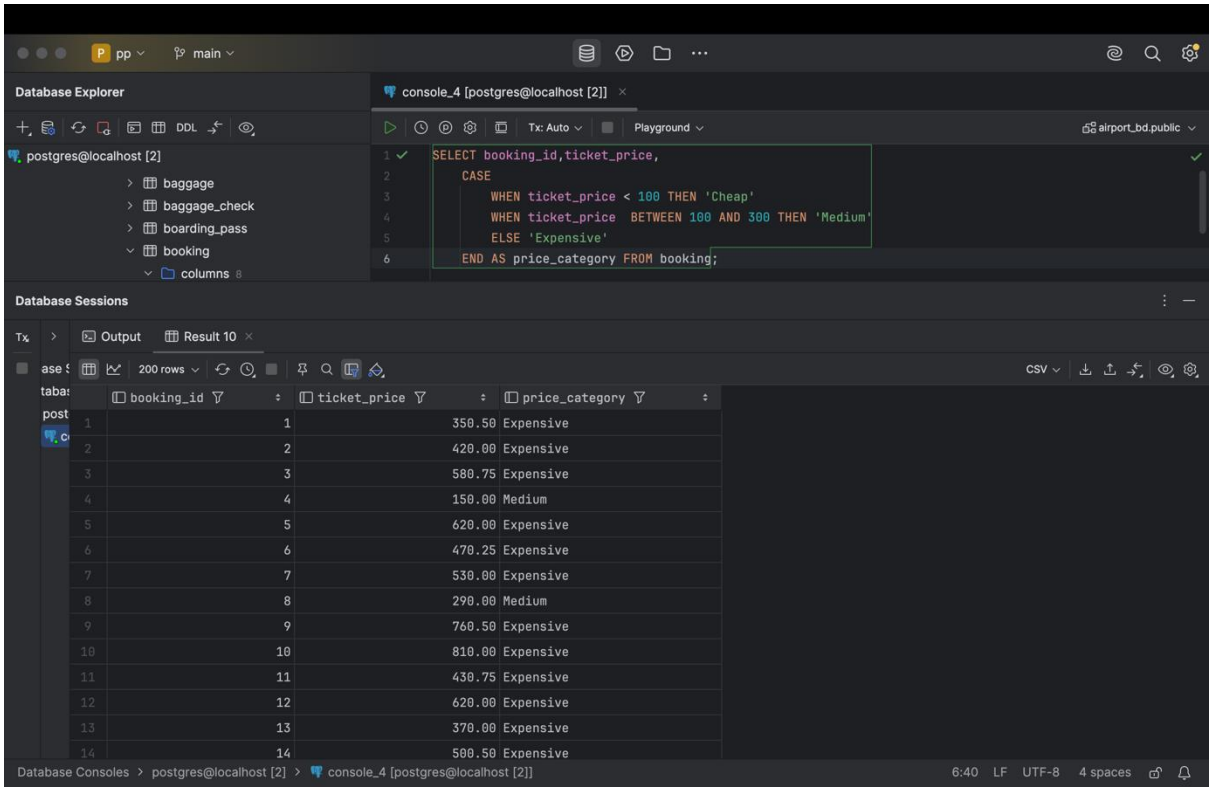

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 9
200 rows
CSV
full_name
age
age_group
142 Grace Ross 34 Young
143 Isaac Ward 41 Adult
144 Lily Bell 35 Young
145 Caleb Brooks 38 Adult
146 Ella Foster 32 Young
147 Luke Howard 40 Adult
148 Avery Ross 33 Young
149 Jack Bell 41 Adult
150 Zoe Brooks 30 Young
151 Mason Ward 37 Adult
152 Chloe Gray 34 Young
153 Henry Foster 40 Adult
154 Lillian Ross 34 Young
155 Owen Howard 38 Adult
156 Hannah Ward 32 Young
157 Alexander Ross 39 Adult
158 Amelia Brooks 33 Young
159 Benjamin Ward 42 Adult
160 Sophia Ross 29 Young
161 Daniel Gray 37 Adult
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
5:55 LF UTF-8 4 spaces

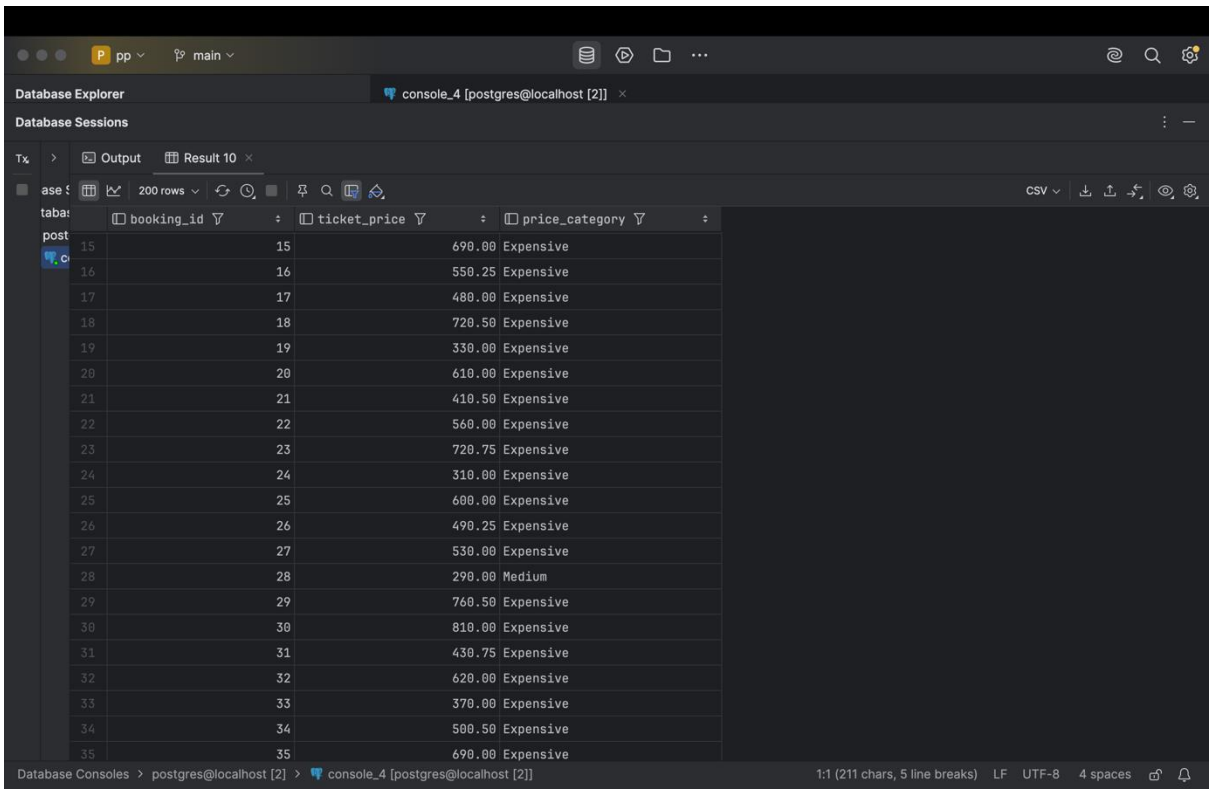


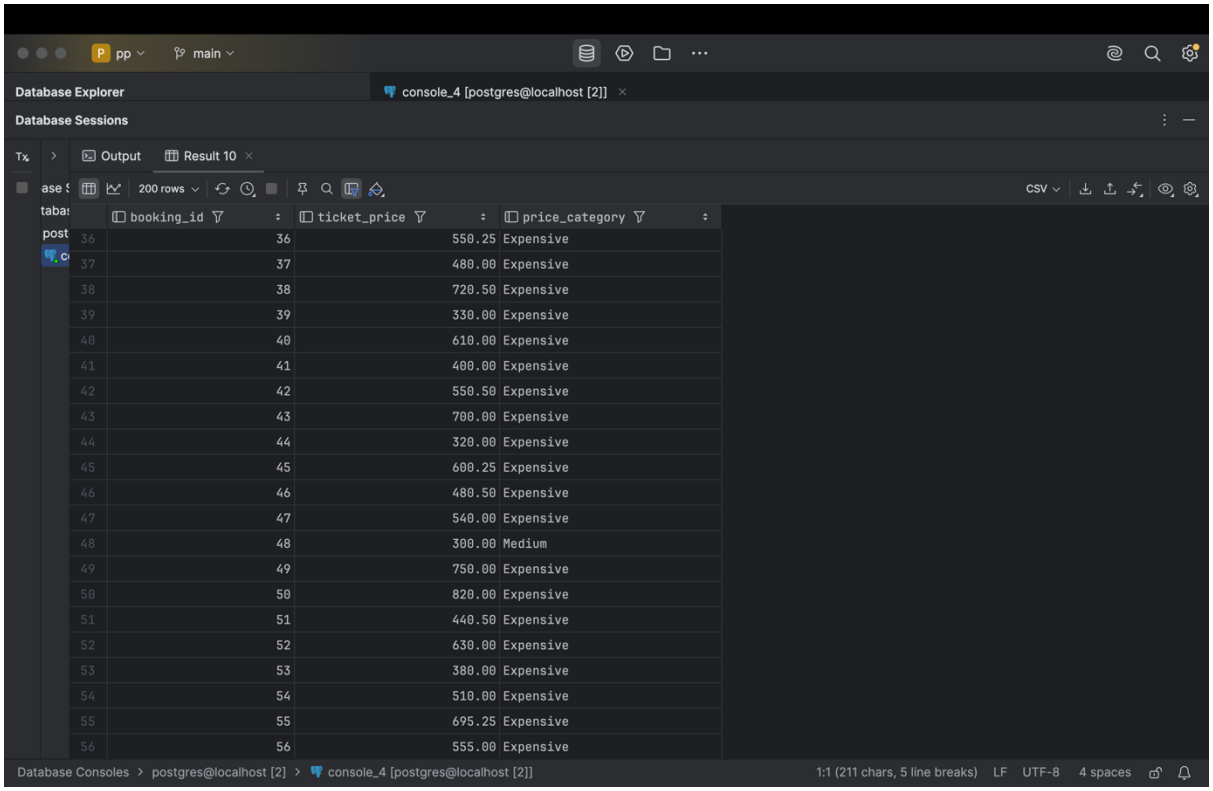


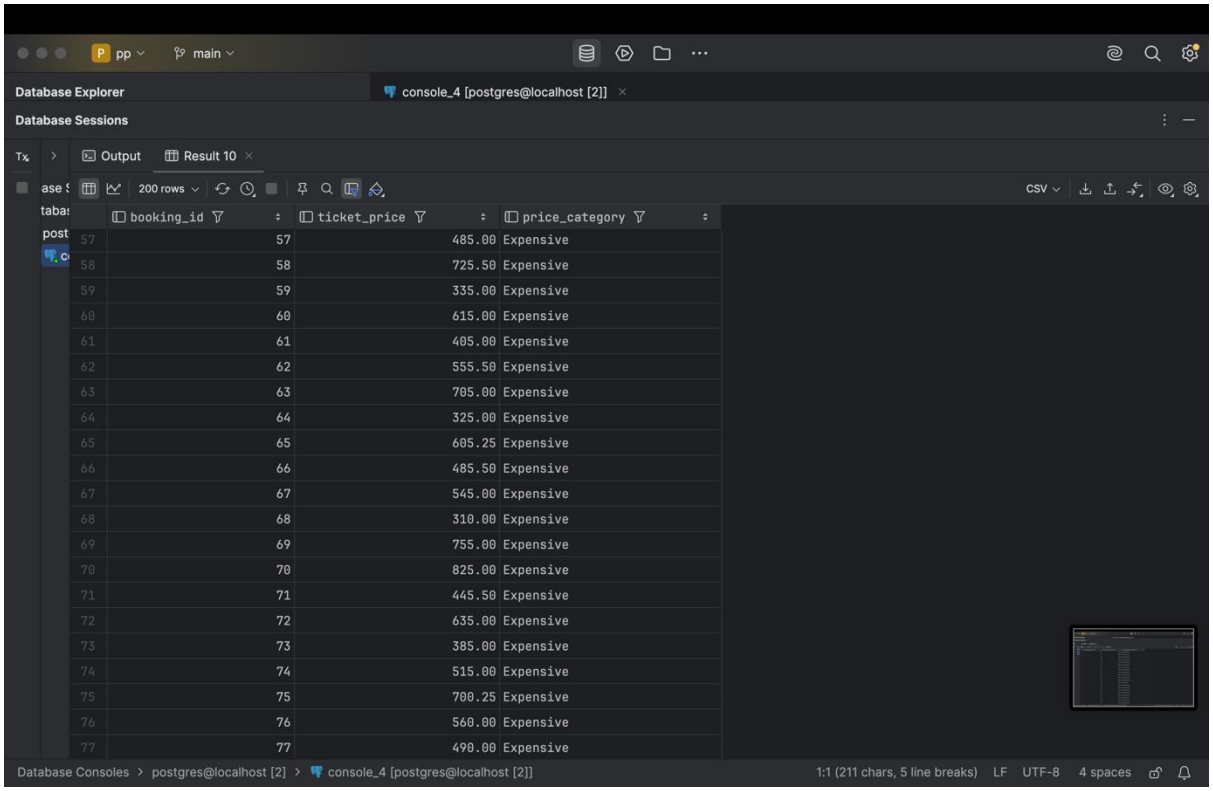

```sql
SELECT first_name || ' ' || last_name AS full_name,
    EXTRACT(YEAR FROM AGE(CURRENT_DATE, date_of_birth)) AS age,
    CASE WHEN EXTRACT(YEAR FROM AGE(CURRENT_DATE, date_of_birth)) BETWEEN
18 AND 35 THEN 'Young'
        WHEN EXTRACT(YEAR FROM AGE(CURRENT_DATE, date_of_birth)) BETWEEN 36
AND 55 THEN 'Adult'
        ELSE 'Other' END AS age_group FROM passengers;
```

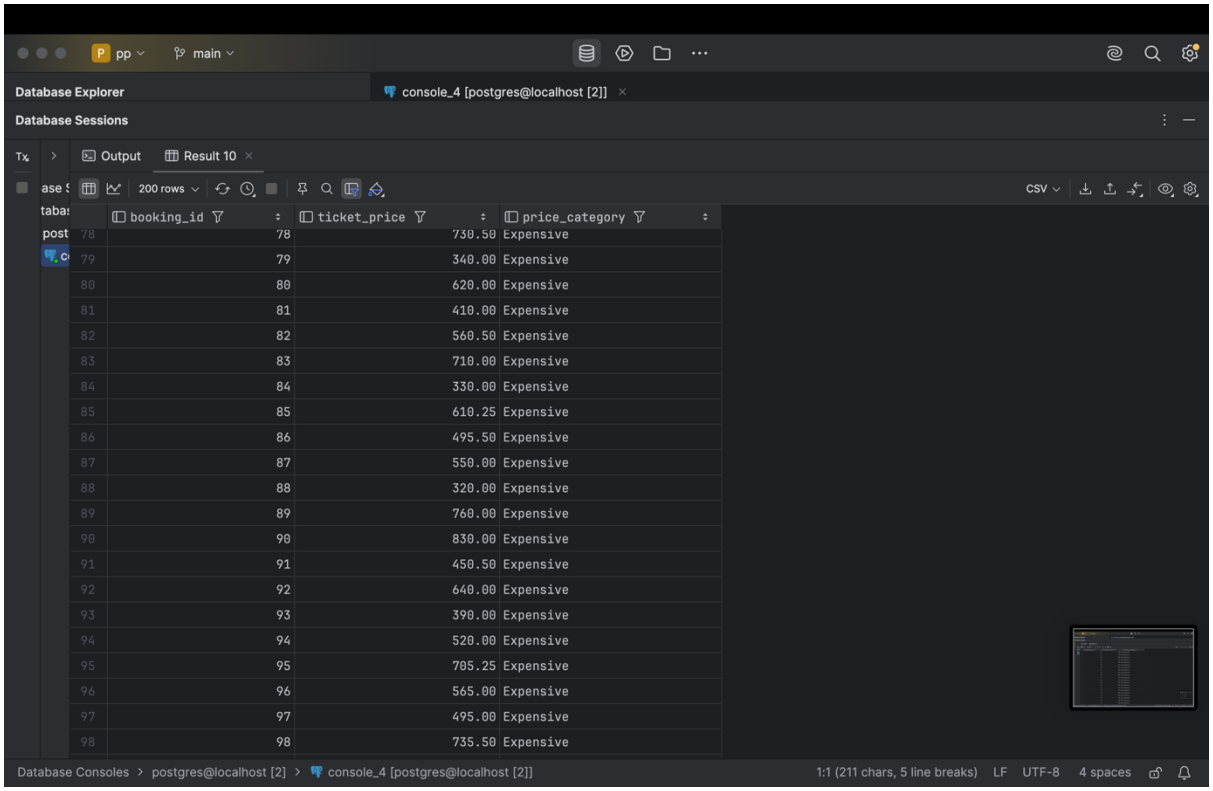
8. Create a query that categorizes ticket prices based on their price as "Cheap," "Medium" or "Expensive."

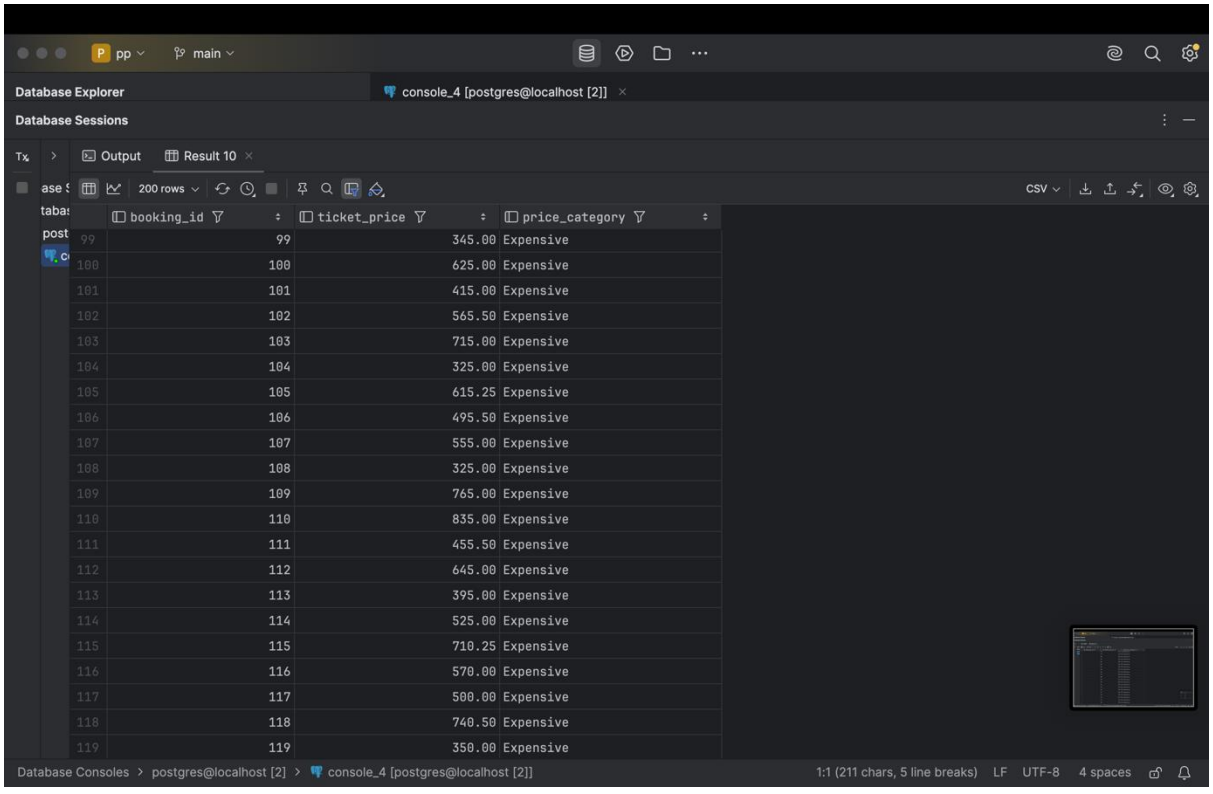


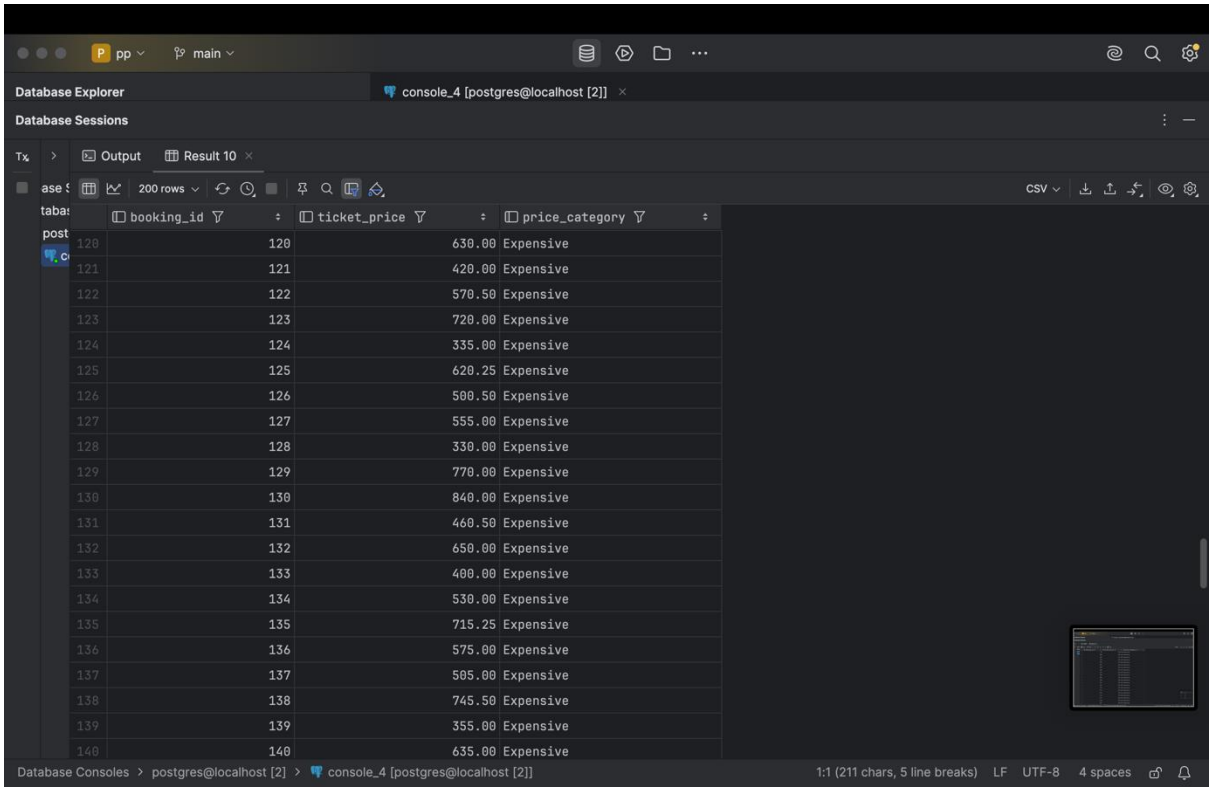


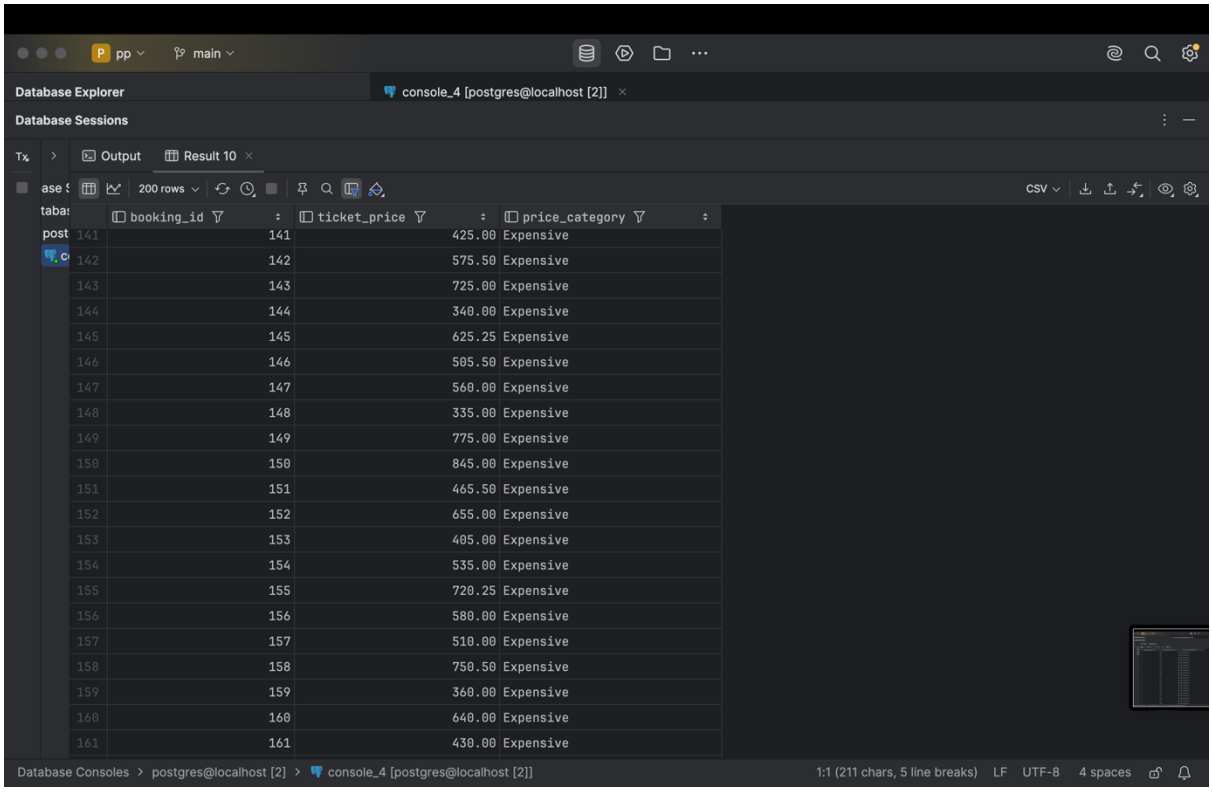

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 10
200 rows
CSV
booking_id
ticket_price
price_category
36 550.25 Expensive
37 480.00 Expensive
38 720.50 Expensive
39 330.00 Expensive
40 610.00 Expensive
41 400.00 Expensive
42 550.50 Expensive
43 700.00 Expensive
44 320.00 Expensive
45 600.25 Expensive
46 480.50 Expensive
47 540.00 Expensive
48 300.00 Medium
49 750.00 Expensive
50 820.00 Expensive
51 440.50 Expensive
52 630.00 Expensive
53 380.00 Expensive
54 510.00 Expensive
55 695.25 Expensive
56 555.00 Expensive
Database Consoles
postgres@localhost [2]
console_4 [postgres@localhost [2]]
1:1 (211 chars, 5 line breaks)
LF
UTF-8
4 spaces

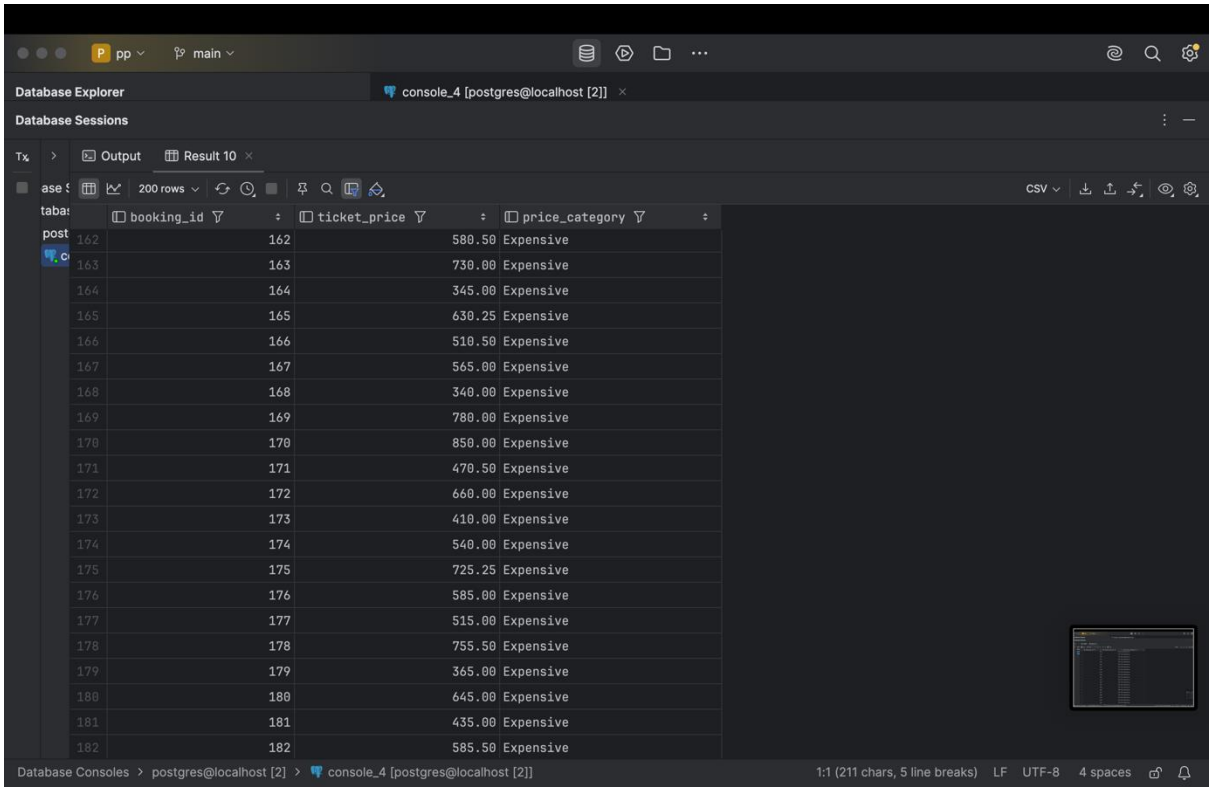

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 10
200 rows
CSV
booking_id
ticket_price
price_category
57 485.00 Expensive
58 725.50 Expensive
59 335.00 Expensive
60 615.00 Expensive
61 405.00 Expensive
62 555.50 Expensive
63 705.00 Expensive
64 325.00 Expensive
65 605.25 Expensive
66 485.50 Expensive
67 545.00 Expensive
68 310.00 Expensive
69 755.00 Expensive
70 825.00 Expensive
71 445.50 Expensive
72 635.00 Expensive
73 385.00 Expensive
74 515.00 Expensive
75 700.25 Expensive
76 560.00 Expensive
77 490.00 Expensive
Database Consoles
postgres@localhost [2]
console_4 [postgres@localhost [2]]
1:1 (211 chars, 5 line breaks)
LF
UTF-8
4 spaces

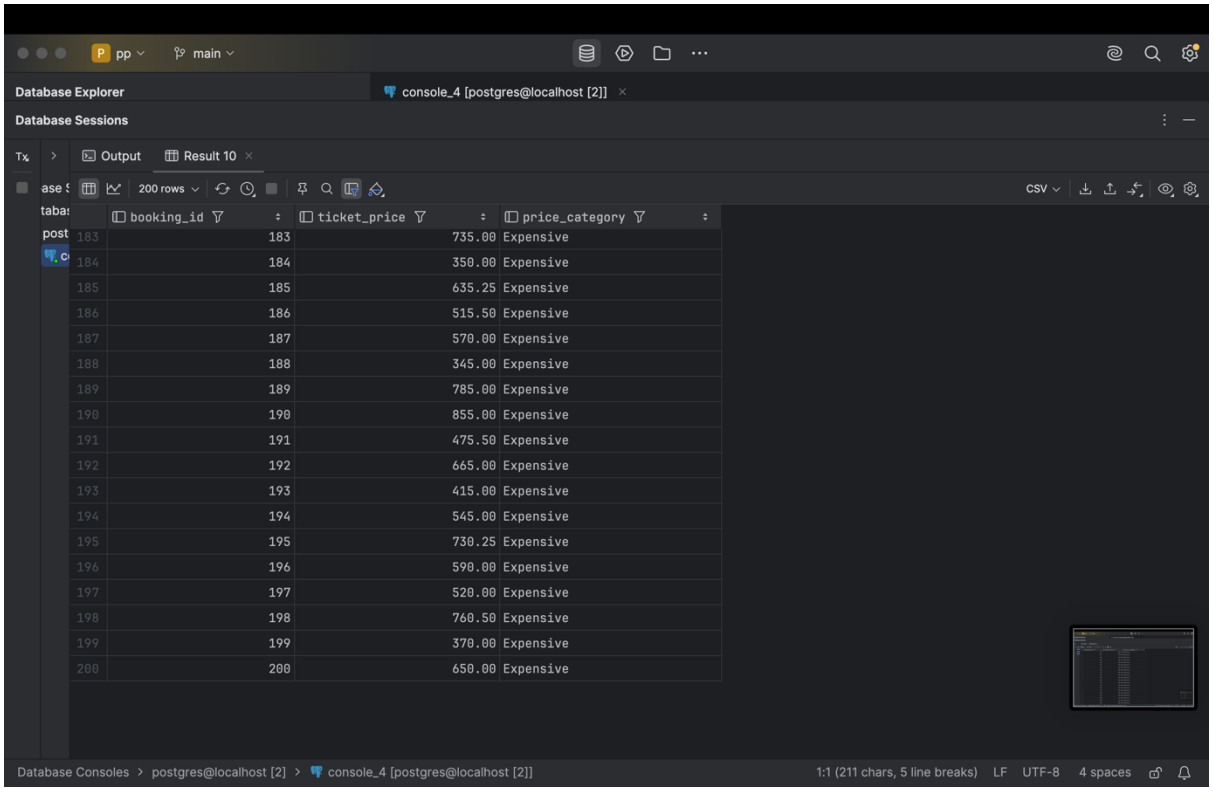

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 10
200 rows
CSV
booking_id
ticket_price
price_category
78 730.50 Expensive
79 340.00 Expensive
80 620.00 Expensive
81 410.00 Expensive
82 560.50 Expensive
83 710.00 Expensive
84 330.00 Expensive
85 610.25 Expensive
86 495.50 Expensive
87 550.00 Expensive
88 320.00 Expensive
89 760.00 Expensive
90 830.00 Expensive
91 450.50 Expensive
92 640.00 Expensive
93 390.00 Expensive
94 520.00 Expensive
95 705.25 Expensive
96 565.00 Expensive
97 495.00 Expensive
98 735.50 Expensive
Database Consoles
postgres@localhost [2]
console_4 [postgres@localhost [2]]
1:1 (211 chars, 5 line breaks)
LF
UTF-8
4 spaces


pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 10
200 rows
CSV
booking_id
ticket_price
price_category
99 345.00 Expensive
100 625.00 Expensive
101 415.00 Expensive
102 565.50 Expensive
103 715.00 Expensive
104 325.00 Expensive
105 615.25 Expensive
106 495.50 Expensive
107 555.00 Expensive
108 325.00 Expensive
109 765.00 Expensive
110 835.00 Expensive
111 455.50 Expensive
112 645.00 Expensive
113 395.00 Expensive
114 525.00 Expensive
115 710.25 Expensive
116 570.00 Expensive
117 500.00 Expensive
118 740.50 Expensive
119 350.00 Expensive
Database Consoles
postgres@localhost [2]
console_4 [postgres@localhost [2]]
1:1 (211 chars, 5 line breaks)
LF
UTF-8
4 spaces


pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 10
200 rows
CSV
booking_id
ticket_price
price_category
120 120 630.00 Expensive
121 121 420.00 Expensive
122 122 570.50 Expensive
123 123 720.00 Expensive
124 124 335.00 Expensive
125 125 620.25 Expensive
126 126 500.50 Expensive
127 127 555.00 Expensive
128 128 330.00 Expensive
129 129 770.00 Expensive
130 130 840.00 Expensive
131 131 460.50 Expensive
132 132 650.00 Expensive
133 133 400.00 Expensive
134 134 530.00 Expensive
135 135 715.25 Expensive
136 136 575.00 Expensive
137 137 505.00 Expensive
138 138 745.50 Expensive
139 139 355.00 Expensive
140 140 635.00 Expensive
Database Consoles
postgres@localhost [2]
console_4 [postgres@localhost [2]]
1:1 (211 chars, 5 line breaks)
LF
UTF-8
4 spaces

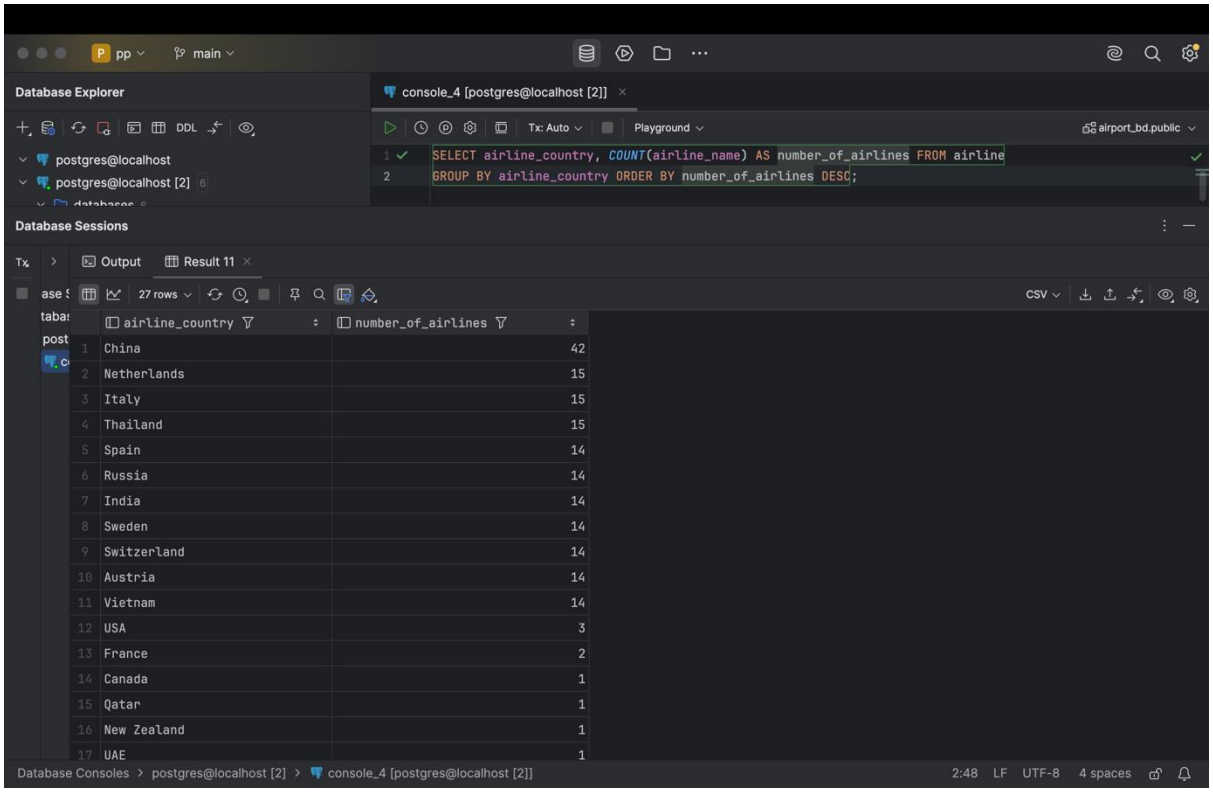

pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 10
200 rows
CSV
booking_id
ticket_price
price_category
141 141 425.00 Expensive
142 142 575.50 Expensive
143 143 725.00 Expensive
144 144 340.00 Expensive
145 145 625.25 Expensive
146 146 505.50 Expensive
147 147 560.00 Expensive
148 148 335.00 Expensive
149 149 775.00 Expensive
150 150 845.00 Expensive
151 151 465.50 Expensive
152 152 655.00 Expensive
153 153 405.00 Expensive
154 154 535.00 Expensive
155 155 720.25 Expensive
156 156 580.00 Expensive
157 157 510.00 Expensive
158 158 750.50 Expensive
159 159 360.00 Expensive
160 160 640.00 Expensive
161 161 430.00 Expensive
Database Consoles
postgres@localhost [2]
console_4 [postgres@localhost [2]]
1:1 (211 chars, 5 line breaks)
LF
UTF-8
4 spaces

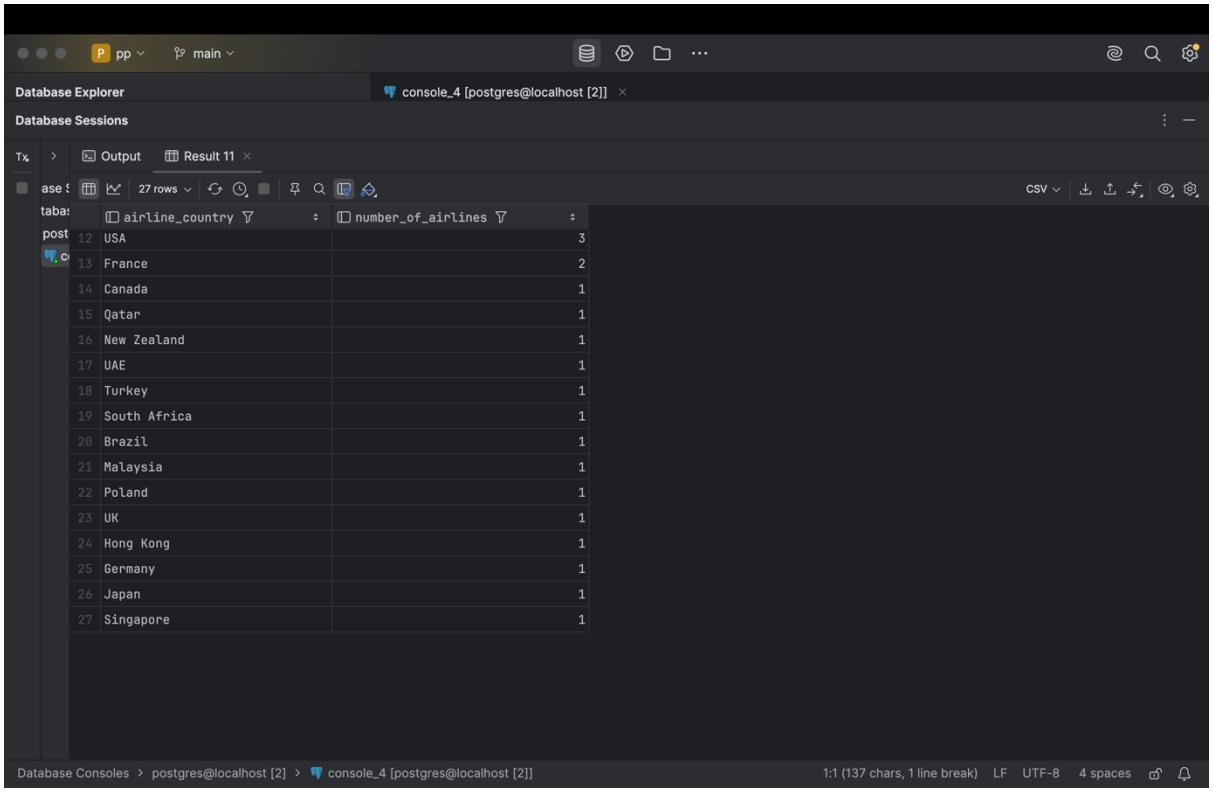





```sql
SELECT booking_id,ticket_price,
    CASE
        WHEN ticket_price < 100 THEN 'Cheap'
        WHEN ticket_price  BETWEEN 100 AND 300 THEN 'Medium'
        ELSE 'Expensive'
    END AS price_category FROM booking;
```

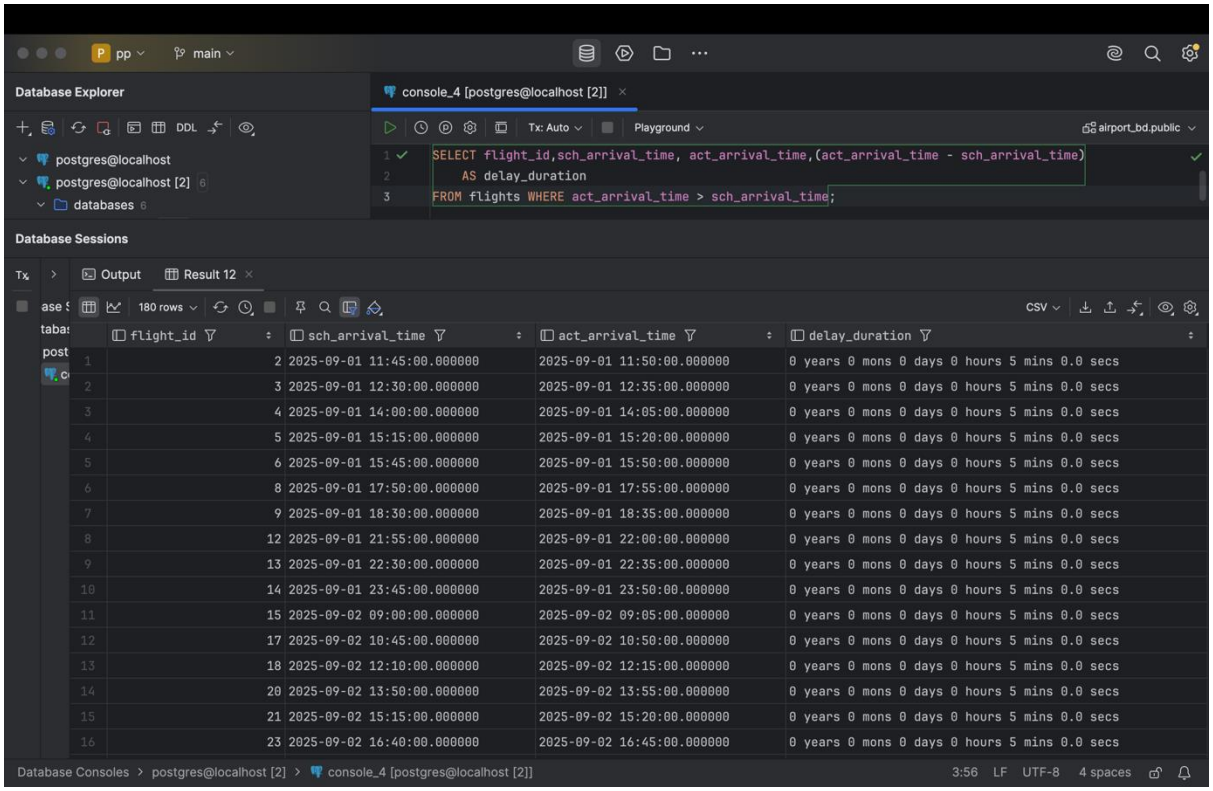
9. Find number of airline names in each airline country.

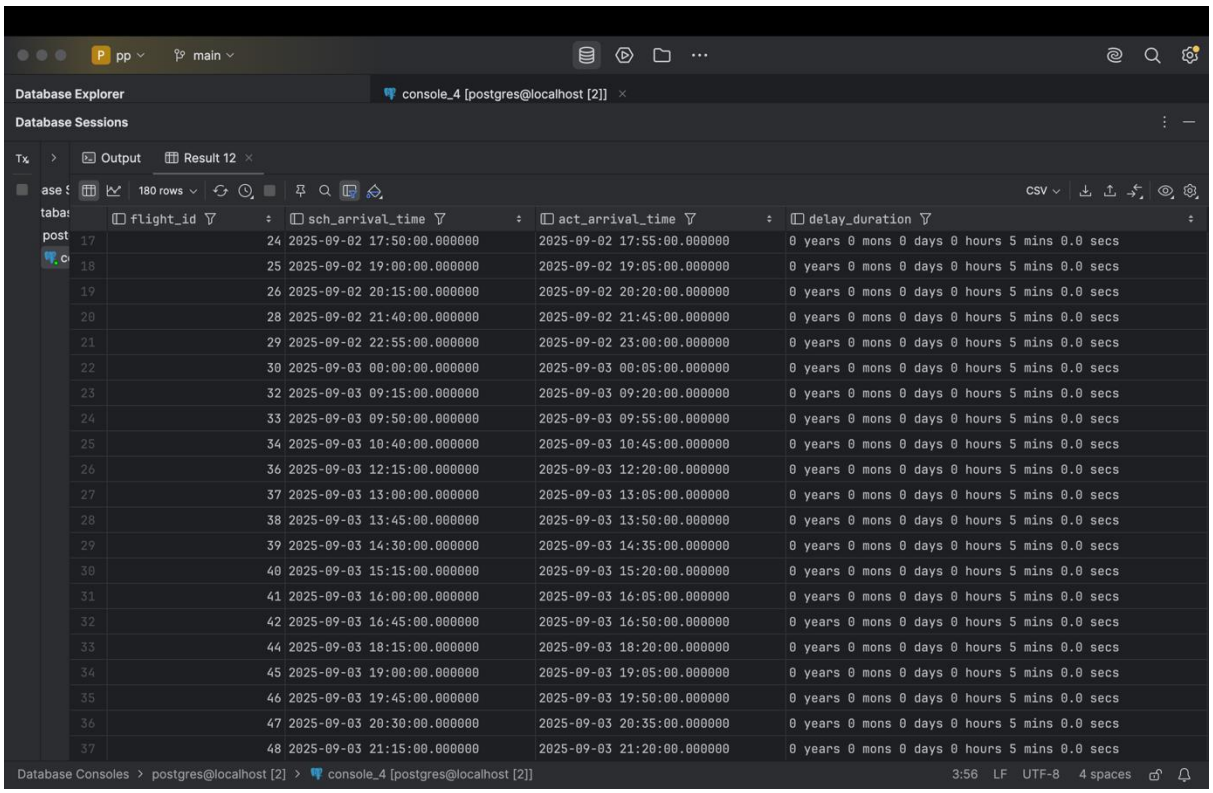


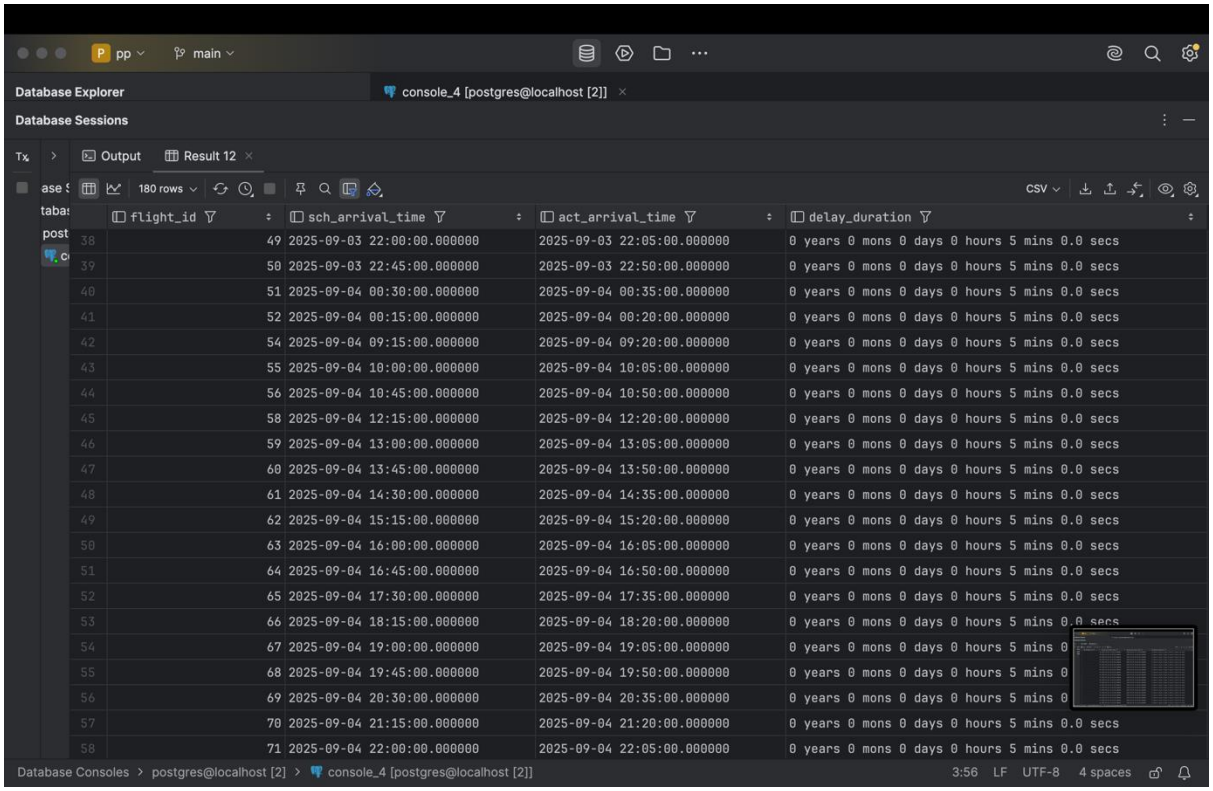


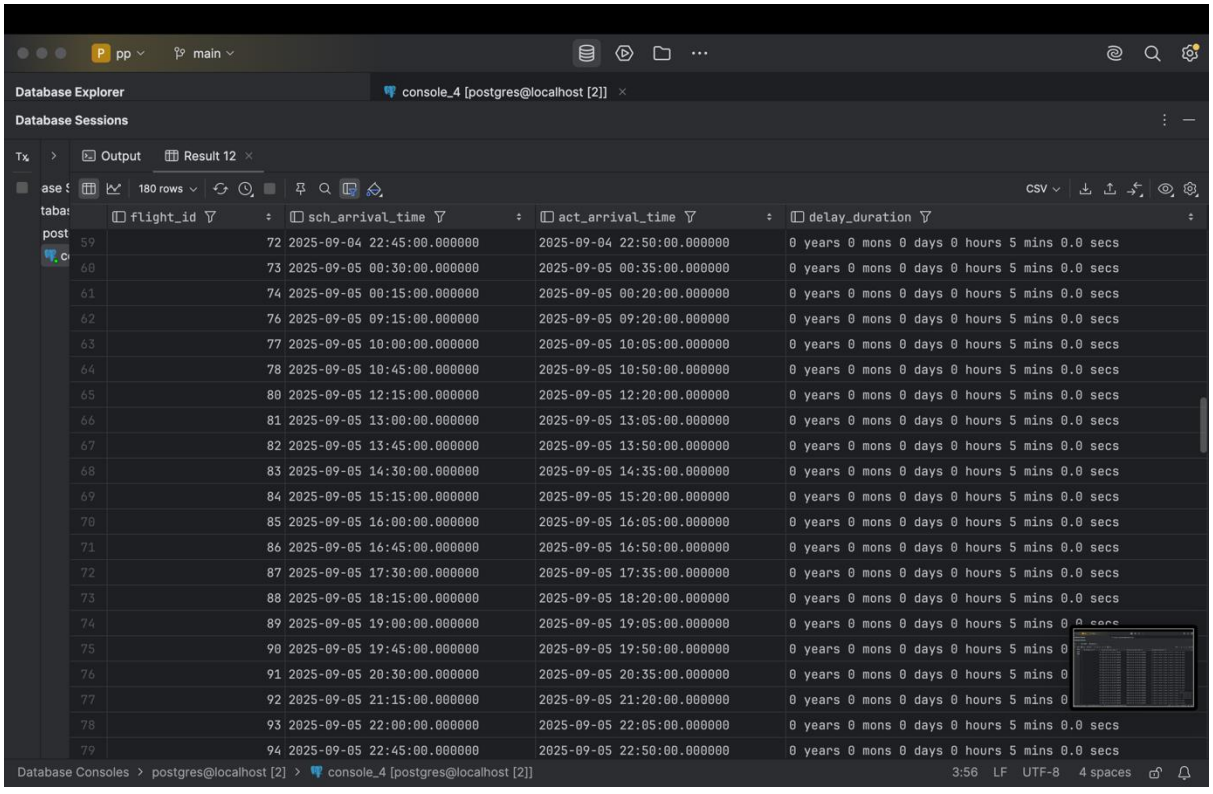

```
SELECT airline_country, COUNT(airline_name) AS number_of_airlines FROM
airline
GROUP BY airline_country ORDER BY number_of_airlines DESC;
```

10. Find flights that arrived late according to their actual arrival time compared to the scheduled arrival time.






pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 12
180 rows
CSV
flight_id
sch_arrival_time
act_arrival_time
delay_duration
49 2025-09-03 22:00:00.000000 2025-09-03 22:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
50 2025-09-03 22:45:00.000000 2025-09-03 22:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
51 2025-09-04 00:30:00.000000 2025-09-04 00:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
52 2025-09-04 00:15:00.000000 2025-09-04 00:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
54 2025-09-04 09:15:00.000000 2025-09-04 09:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
55 2025-09-04 10:00:00.000000 2025-09-04 10:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
56 2025-09-04 10:45:00.000000 2025-09-04 10:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
58 2025-09-04 12:15:00.000000 2025-09-04 12:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
59 2025-09-04 13:00:00.000000 2025-09-04 13:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
60 2025-09-04 13:45:00.000000 2025-09-04 13:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
61 2025-09-04 14:30:00.000000 2025-09-04 14:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
62 2025-09-04 15:15:00.000000 2025-09-04 15:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
63 2025-09-04 16:00:00.000000 2025-09-04 16:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
64 2025-09-04 16:45:00.000000 2025-09-04 16:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
65 2025-09-04 17:30:00.000000 2025-09-04 17:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
66 2025-09-04 18:15:00.000000 2025-09-04 18:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
67 2025-09-04 19:00:00.000000 2025-09-04 19:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0
68 2025-09-04 19:45:00.000000 2025-09-04 19:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0
69 2025-09-04 20:30:00.000000 2025-09-04 20:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0
70 2025-09-04 21:15:00.000000 2025-09-04 21:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
71 2025-09-04 22:00:00.000000 2025-09-04 22:05:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
Database Consoles > postgres@localhost [2] > console_4 [postgres@localhost [2]]
3:56 LF UTF-8 4 spaces


pp
main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
Output
Result 12
180 rows
CSV
flight_id
sch_arrival_time
act_arrival_time
delay_duration
72 2025-09-04 22:45:00.000000 2025-09-04 22:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
73 2025-09-05 00:30:00.000000 2025-09-05 00:35:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
74 2025-09-05 00:15:00.000000 2025-09-05 00:20:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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94 2025-09-05 22:45:00.000000 2025-09-05 22:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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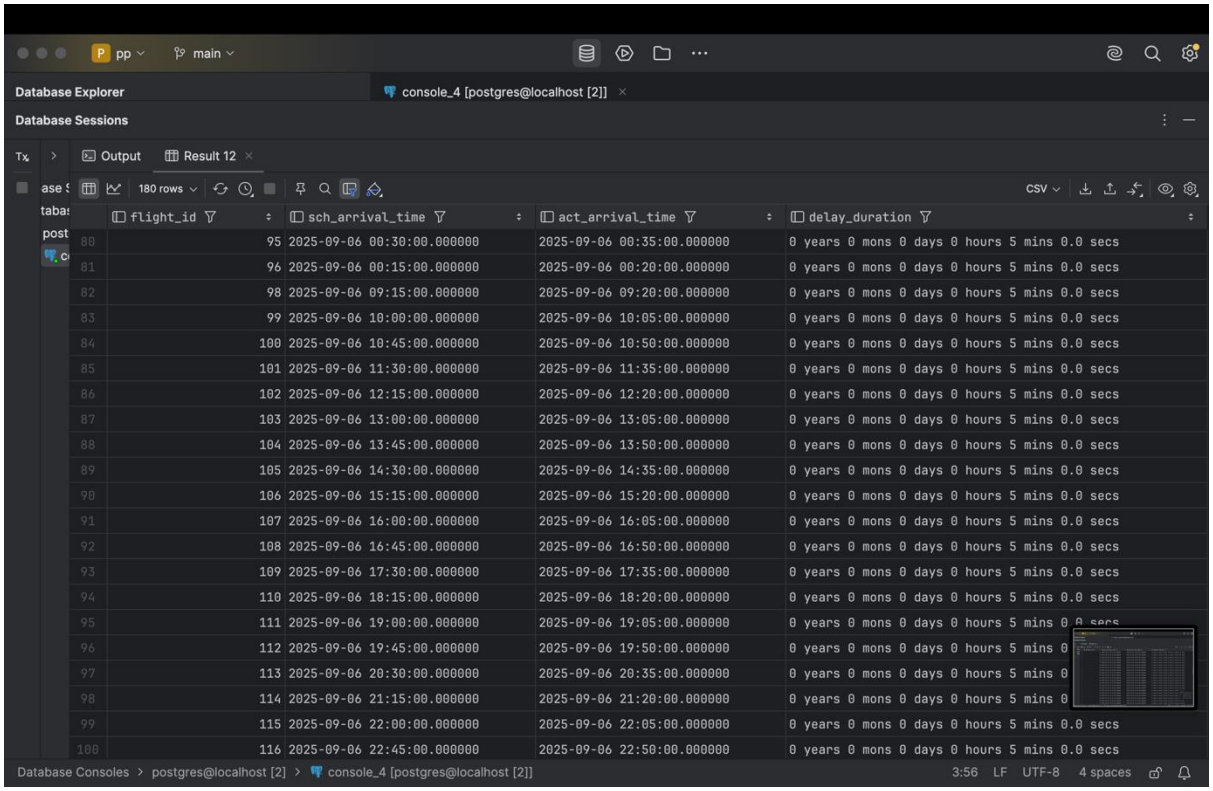
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main
Database Explorer
console_4 [postgres@localhost [2]]
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Output
Result 12
180 rows
CSV
flight_id
sch_arrival_time
act_arrival_time
delay_duration
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116 2025-09-06 22:45:00.000000 2025-09-06 22:50:00.000000 0 years 0 mons 0 days 0 hours 5 mins 0.0 secs
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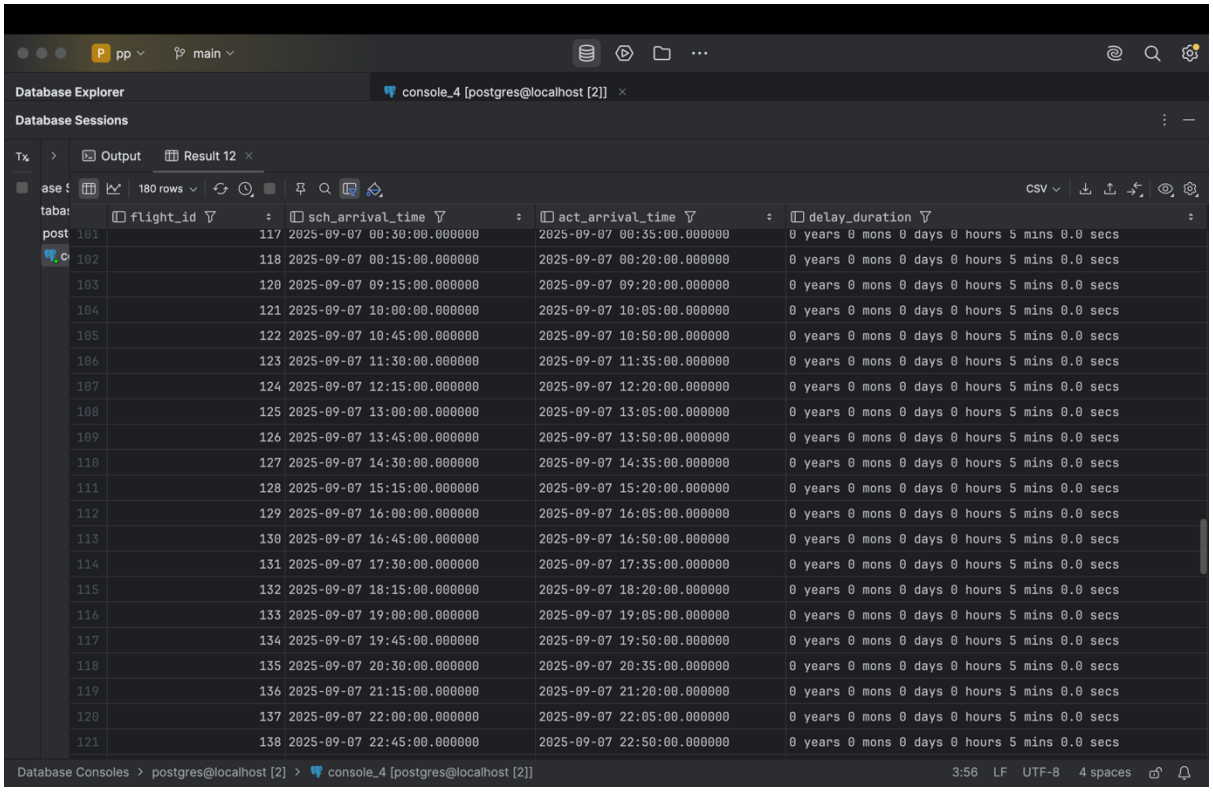
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main
Database Explorer
console_4 [postgres@localhost [2]]
Database Sessions
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Result 12
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CSV
flight_id
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act_arrival_time
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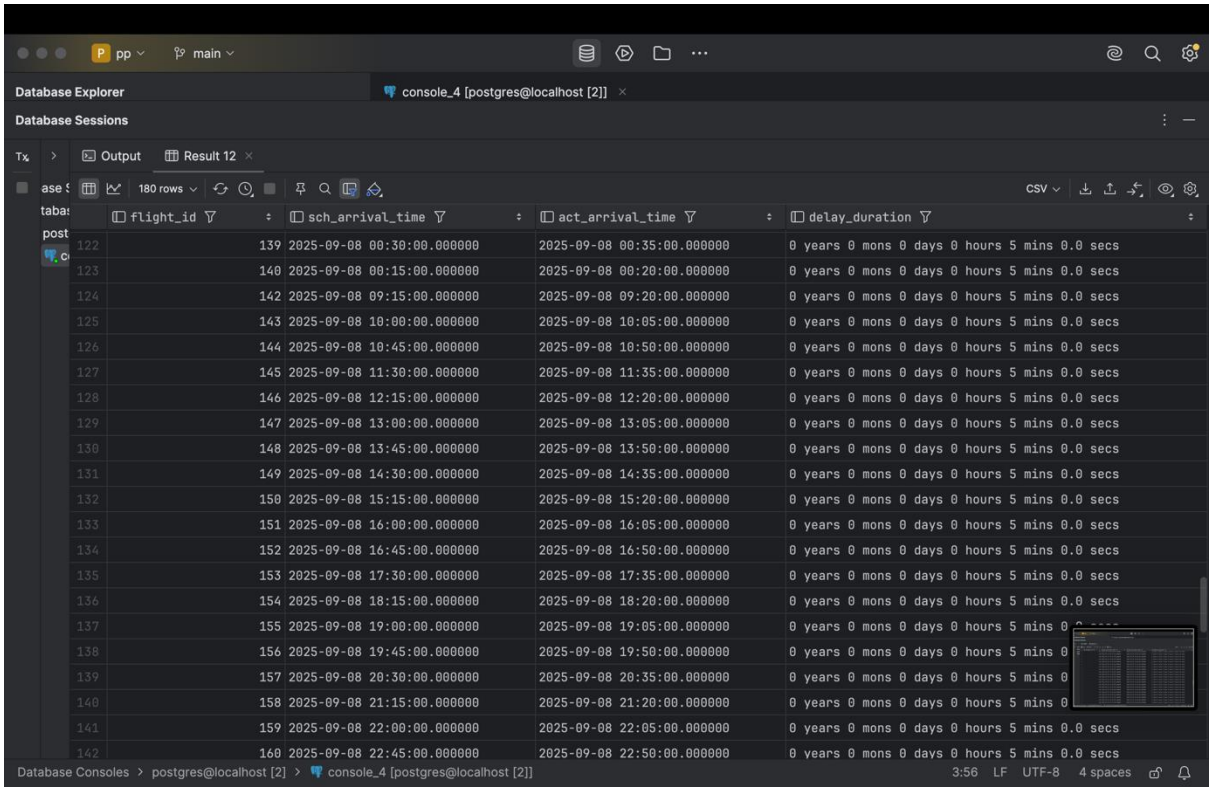
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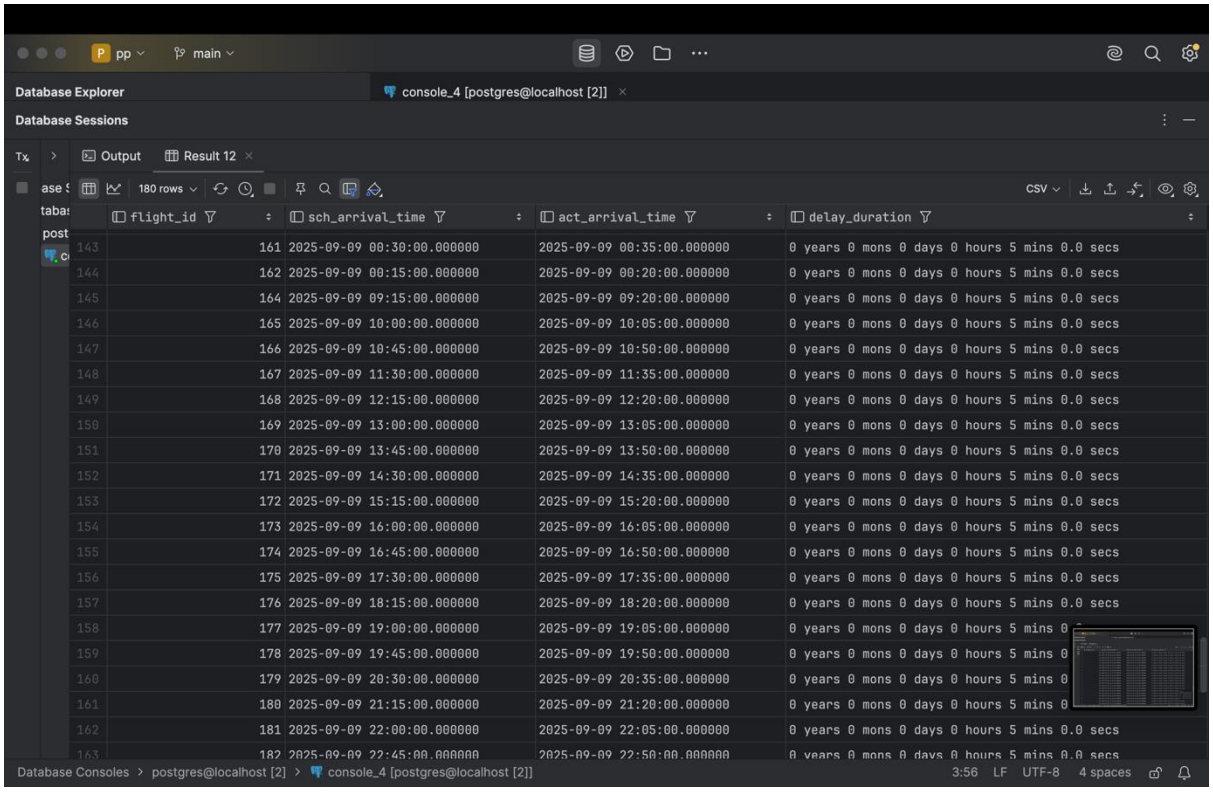
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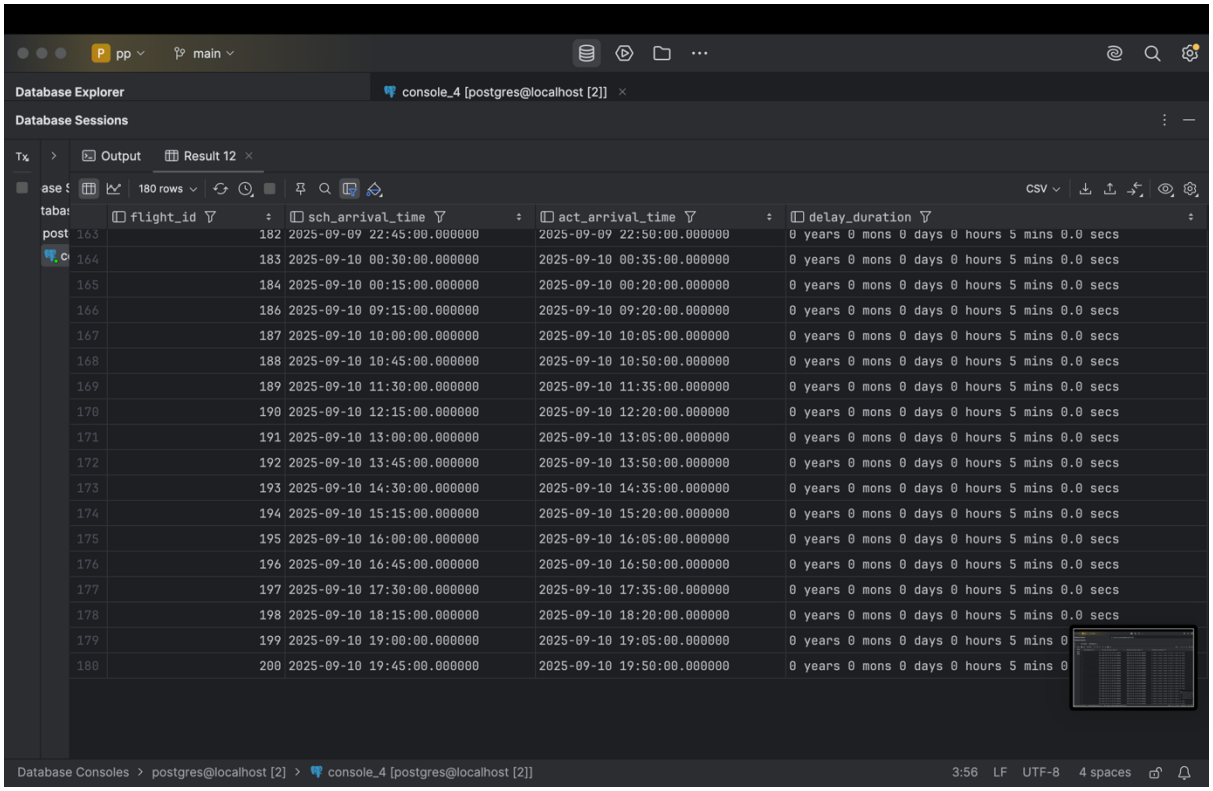


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    AS delay_duration
FROM flights WHERE act_arrival_time > sch_arrival_time;
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