

## LAB 5

1. Add a CHECK constraint to passenger table to provide that passengers must be at least 10 years old.

```
ALTER TABLE passengers ADD CONSTRAINT chk_passenger_min_age
CHECK (date_part('year', age(date_of_birth)) >= 10);
SELECT * FROM passengers;
```

first_name	last_name	date_of_birth	gender	country_of_citizenship
John	Smith	1985-03-12	Male	USA
Sarah	Johnson	1990-07-24	Female	Canada
James	Williams	1988-11-05	Male	UK
Livia	Brown	1992-01-18	Female	Australia
John	Jones	1983-09-30	Male	USA
Emma	Garcia	1995-06-14	Female	Spain
William	Miller	1987-12-22	Male	Germany
Sophia	Davis	1991-04-09	Female	France
James	Martinez	1989-08-17	Male	Italy
Ambella	Hernandez	1993-02-26	Female	Mexico
Benjamin	Lopez	1984-10-03	Male	Argentina
Isabella	Gonzalez	1996-05-11	Female	Chile
Charles	Wilson	1986-07-07	Male	USA
Charlotte	Anderson	1994-09-20	Female	UK
Henry	Thomas	1982-11-29	Male	Australia
Sophia	Taylor	1990-03-08	Female	New Zealand

Database Explorer      console\_4 [postgres@localhost [2]]

Database Sessions

Tx +, -, D, C, D, X

Output airport\_bd.public.passengers

passenger\_id : first\_name : last\_name : date\_of\_birth : gender : country

	passenger_id	first_name	last_name	date_of_birth	gender	country
17	17	Alexander	Moore	1985-12-15	Male	Canada
18	18	Harper	Jackson	1992-06-25	Female	USA
19	19	Daniel	Martin	1987-09-03	Male	UK
20	20	Evelyn	Lee	1993-01-19	Female	South Korea
21	21	Jack	White	1986-05-14	Male	USA
22	22	Lily	Harris	1991-08-23	Female	Canada
23	23	Owen	Clark	1984-12-11	Male	UK
24	24	Ella	Lewis	1993-03-09	Female	Australia
25	25	Nathan	Robinson	1987-07-22	Male	USA
26	26	Chloe	Walker	1992-11-05	Female	France
27	27	Ryan	Hall	1989-01-19	Male	Germany
28	28	Grace	Allen	1990-06-30	Female	Spain
29	29	Ethan	Young	1985-09-14	Male	Italy
30	30	Sofia	King	1994-04-21	Female	Mexico
31	31	Logan	Wright	1988-02-18	Male	Canada
32	32	Victoria	Scott	1991-12-07	Female	UK
33	33	Caleb	Torres	1983-08-30	Male	USA
34	34	Zoe	Nguyen	1995-01-16	Female	Australia
35	35	Isaac	Hill	1987-03-25	Male	USA
36	36	Madison	Flores	1990-10-12	Female	UK
37	37	Levi	Green	1986-07-04	Male	Germany

Database Consoles > postgres@localhost [2] > console\_4 [postgres@localhost [2]]

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Database Explorer      console\_4 [postgres@localhost [2]]

Database Sessions

Tx +, -, D, C, D, X

Output airport\_bd.public.passengers

passenger\_id : first\_name : last\_name : date\_of\_birth : gender : country

	passenger_id	first_name	last_name	date_of_birth	gender	country
38	38	Hannah	Adams	1993-05-20	Female	France
39	39	Connor	Baker	1984-11-29	Male	Italy
40	40	Lillian	Nelson	1992-08-08	Female	Mexico
41	41	Dylan	Carter	1985-04-03	Male	USA
42	42	Abigail	Mitchell	1991-09-15	Female	Canada
43	43	Samuel	Perez	1989-06-27	Male	UK
44	44	Emily	Roberts	1990-11-30	Female	Australia
45	45	Joseph	Turner	1987-03-12	Male	USA
46	46	Scarlett	Phillips	1994-02-22	Female	France
47	47	Anthony	Campbell	1986-12-18	Male	Germany
48	48	Aria	Parker	1992-05-07	Female	Spain
49	49	Matthew	Evans	1983-08-16	Male	Italy
50	50	Ella	Edwards	1995-09-25	Female	Mexico
51	51	Jackson	Collins	1988-02-04	Male	USA
52	52	Samantha	Stewart	1991-06-11	Female	Canada
53	53	Gabriel	Sanchez	1984-10-23	Male	UK
54	54	Nora	Morris	1990-01-19	Female	Australia
55	55	Carter	Rogers	1987-07-06	Male	USA
56	56	Victoria	Reed	1993-03-29	Female	France
57	57	Wyatt	Cook	1985-11-14	Male	Germany
58	58	Camila	Morgan	1992-08-02	Female	Spain

Database Consoles > postgres@localhost [2] > console\_4 [postgres@localhost [2]]

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Database Explorer      console\_4 [postgres@localhost [2]]

Database Sessions

Tx +, -, D, C, D, X

Output airport\_bd.public.passengers

passenger\_id : first\_name : last\_name : date\_of\_birth : gender : country

	passenger_id	first_name	last_name	date_of_birth	gender	country
58	58	Camila	Morgan	1992-08-02	Female	Spain
59	59	Henry	Bell	1986-05-26	Male	Italy
60	60	Scarlett	Murphy	1995-12-15	Female	Mexico
61	61	Eli	Bailey	1988-03-21	Male	USA
62	62	Aurora	Rivera	1991-07-08	Female	Canada
63	63	Andrew	Cooper	1984-09-30	Male	UK
64	64	Luna	Richardson	1990-02-14	Female	Australia
65	65	Joshua	Cox	1987-06-18	Male	USA
66	66	Zoe	Howard	1993-01-05	Female	France
67	67	Nathan	Ward	1986-09-12	Male	Germany
68	68	Hannah	Torres	1992-04-17	Female	Spain
69	69	Ryan	Peterson	1983-11-29	Male	Italy
70	70	Madeline	Gray	1995-08-21	Female	Mexico
71	71	Evan	Ramirez	1988-02-09	Male	USA
72	72	Grace	James	1991-05-25	Female	Canada
73	73	Isaac	Watson	1984-08-18	Male	UK
74	74	Lily	Brooks	1990-12-02	Female	Australia
75	75	Caleb	Kelly	1987-03-15	Male	USA
76	76	Ella	Sanders	1993-07-11	Female	France
77	77	Luke	Price	1985-06-28	Male	Germany
78	78	Avery	Bennett	1992-09-28	Female	Spain

Database Consoles > postgres@localhost [2] > console\_4 [postgres@localhost [2]]

3:25 LF UTF-8 4 spaces

Database Explorer      console\_4 [postgres@localhost [2]]

Database Sessions

Tx +, -, D, C, D, X

Output airport\_bd.public.passengers

passenger\_id : first\_name : last\_name : date\_of\_birth : gender : country

	passenger_id	first_name	last_name	date_of_birth	gender	country
79	79	Jack	Wood	1986-11-09	Male	Italy
80	80	Zoe	Barnes	1995-01-23	Female	Mexico
81	81	Mason	Ross	1988-04-06	Male	USA
82	82	Chloe	Henderson	1991-08-19	Female	Canada
83	83	Henry	Cole	1984-10-12	Male	UK
84	84	Lillian	Jenkins	1990-02-28	Female	Australia
85	85	Owen	Perry	1987-05-30	Male	USA
86	86	Hannah	Powell	1993-09-14	Female	France
87	87	Alexander	Long	1985-11-21	Male	Germany
88	88	Amelia	Patterson	1992-03-03	Female	Spain
89	89	Benjamin	Hughes	1983-07-17	Male	Italy
90	90	Sophia	Flores	1995-10-26	Female	Mexico
91	91	Daniel	Washington	1988-01-19	Male	USA
92	92	Mia	Butler	1991-06-02	Female	Canada
93	93	Lucas	Simmons	1984-09-28	Male	UK
94	94	Charlotte	Foster	1990-12-15	Female	Australia
95	95	Ethan	Gonzales	1987-03-22	Male	USA
96	96	Avery	Bryant	1993-08-11	Female	France
97	97	Matthew	Alexander	1985-05-04	Male	Germany
98	98	Ella	Russell	1992-10-19	Female	Spain
99	99	Jackson	Griffin	1988-11-30	Male	UK

Database Consoles > postgres@localhost [2] > console\_4 [postgres@localhost [2]]

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Database Explorer      console\_4 [postgres@localhost [2]]

Database Sessions

Tx +, -, D, C, D, X

Output airport\_bd.public.passengers

passenger\_id : first\_name : last\_name : date\_of\_birth : gender : country

passenger_id	first_name	last_name	date_of_birth	gender	country
100	Harper	Diaz	1995-02-15	Female	Mexico
101	Aiden	Hayes	1985-03-12	Male	USA
102	Ella	Fisher	1990-07-24	Female	Canada
103	Liam	Cole	1988-11-05	Male	UK
104	Olivia	Howard	1992-01-18	Female	Australia
105	Noah	Brooks	1983-09-30	Male	USA
106	Ava	Gonzalez	1995-06-14	Female	Spain
107	William	Henderson	1987-12-22	Male	Germany
108	Sophia	Flores	1991-04-09	Female	France
109	James	Bell	1989-08-17	Male	Italy
110	Isabella	Russell	1993-02-26	Female	Mexico
111	Benjamin	Simmons	1984-10-03	Male	Argentina
112	Mia	Ward	1996-05-11	Female	Chile
113	Lucas	Reed	1986-07-07	Male	USA
114	Charlotte	Price	1994-09-20	Female	UK
115	Henry	Bennett	1982-11-29	Male	Australia
116	Amelia	Gray	1990-03-08	Female	Canada
117	Alexander	Powell	1985-12-15	Male	UK
118	Harper	Long	1992-06-25	Female	USA
119	Daniel	Patterson	1987-09-03	Male	UK
120	Evelyn	Hughes	1993-01-19	Female	South Korea

Database Consoles > postgres@localhost [2] > console\_4 [postgres@localhost [2]]

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Database Explorer      console\_4 [postgres@localhost [2]]

Database Sessions

Tx +, -, D, C, D, X

Output airport\_bd.public.passengers

passenger\_id : first\_name : last\_name : date\_of\_birth : gender : country

passenger_id	first_name	last_name	date_of_birth	gender	country
121	Jackson	Foster	1986-04-12	Male	USA
122	Avery	Howard	1991-07-23	Female	Canada
123	Owen	Cox	1984-11-05	Male	UK
124	Scarlett	Ward	1993-02-18	Female	Australia
125	Ethan	Fisher	1987-08-30	Male	USA
126	Chloe	Gray	1990-01-16	Female	France
127	Matthew	Bell	1986-07-04	Male	Germany
128	Lillian	Reed	1993-05-20	Female	Spain
129	Henry	Powell	1984-11-29	Male	Italy
130	Madeline	Ross	1992-08-08	Female	Mexico
131	Lucas	Henderson	1985-04-03	Male	USA
132	Victoria	Brooks	1991-09-15	Female	Canada
133	Gabriel	Perry	1989-06-27	Male	UK
134	Nora	Bailey	1990-01-19	Female	Australia
135	Carter	James	1987-07-06	Male	USA
136	Aurora	Bennett	1993-03-29	Female	France
137	Wyatt	Gray	1985-11-14	Male	Australia
138	Camila	Ward	1992-08-02	Female	Canada
139	Henry	Ross	1986-05-26	Male	UK
140	Scarlett	Henderson	1995-12-15	Female	Mexico
141	Eli	Gray	1988-03-21	Male	USA

Database Consoles > postgres@localhost [2] > console\_4 [postgres@localhost [2]]

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Database Explorer      console\_4 [postgres@localhost [2]]

Database Sessions

Tx +, -, D, C, D, X

Output airport\_bd.public.passengers

passenger\_id : first\_name : last\_name : date\_of\_birth : gender : country

	passenger_id	first_name	last_name	date_of_birth	gender	country
142	142	Grace	Ross	1991-07-08	Female	Canada
143	143	Isaac	Ward	1984-09-30	Male	UK
144	144	Lily	Bell	1990-02-14	Female	Australia
145	145	Caleb	Brooks	1987-06-18	Male	USA
146	146	Ella	Foster	1993-01-05	Female	France
147	147	Luke	Howard	1985-09-12	Male	Germany
148	148	Avery	Ross	1992-04-17	Female	Spain
149	149	Jack	Bell	1983-11-29	Male	Italy
150	150	Zoe	Brooks	1995-08-21	Female	Mexico
151	151	Mason	Ward	1988-04-06	Male	USA
152	152	Chloe	Gray	1991-08-19	Female	Canada
153	153	Henry	Foster	1984-10-12	Male	UK
154	154	Lillian	Ross	1990-12-28	Female	Australia
155	155	Owen	Howard	1987-05-30	Male	USA
156	156	Hannah	Ward	1993-09-14	Female	France
157	157	Alexander	Ross	1985-11-21	Male	Germany
158	158	Amelia	Brooks	1992-03-03	Female	Spain
159	159	Benjamin	Ward	1983-07-17	Male	Italy
160	160	Sophia	Ross	1995-10-26	Female	Mexico
161	161	Daniel	Gray	1988-01-19	Male	USA
162	162	Mia	Ross	1991-06-02	Female	Canada

Database Consoles > postgres@localhost [2] > console\_4 [postgres@localhost [2]]

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Database Explorer      console\_4 [postgres@localhost [2]]

Database Sessions

Tx +, -, D, C, D, X

Output airport\_bd.public.passengers

passenger\_id : first\_name : last\_name : date\_of\_birth : gender : country

	passenger_id	first_name	last_name	date_of_birth	gender	country
163	163	Lucas	Ward	1984-09-28	Male	UK
164	164	Charlotte	Bell	1990-12-15	Female	Australia
165	165	Ethan	Brooks	1987-03-22	Male	USA
166	166	Avery	Foster	1993-08-11	Female	France
167	167	Matthew	Howard	1985-05-04	Male	Germany
168	168	Ella	Ross	1992-10-19	Female	Spain
169	169	Jackson	Ward	1986-11-30	Male	Italy
170	170	Harper	Brooks	1995-02-15	Female	Mexico
171	171	Aiden	Foster	1988-03-21	Male	USA
172	172	Ella	Ward	1991-07-08	Female	Canada
173	173	Liam	Ross	1984-09-30	Male	UK
174	174	Olivia	Brooks	1990-02-14	Female	Australia
175	175	Noah	Ward	1987-06-18	Male	USA
176	176	Ava	Ross	1993-01-05	Female	France
177	177	William	Brooks	1985-09-12	Male	Germany
178	178	Sophia	Ward	1992-04-17	Female	Spain
179	179	James	Ross	1983-11-29	Male	Italy
180	180	Isabella	Brooks	1995-08-21	Female	Mexico
181	181	Benjamin	Ward	1988-04-06	Male	USA
182	182	Mia	Ross	1991-08-19	Female	Canada
183	183	Lucas	Brooks	1984-10-12	Male	UK

Database Consoles > postgres@localhost [2] > console\_4 [postgres@localhost [2]]

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The screenshot shows a PostgreSQL database interface. On the left, the Database Explorer pane displays a tree structure with 'Database Sessions' expanded, showing 'postgres@localhost [2]' and a session named 'console\_4 594 ms'. The main area is a table viewer titled 'airport\_bd.public.passenger' with the following schema:

	passenger_id	first_name	last_name	date_of_birth	gender	country
184	184	Charlotte	Ward	1990-12-28	Female	Australia
185	185	Ethan	Ross	1987-05-30	Male	USA
186	186	Avery	Brooks	1993-09-14	Female	France
187	187	Matthew	Ward	1985-11-21	Male	Germany
188	188	Ella	Ross	1992-03-03	Female	Spain
189	189	Jackson	Brooks	1983-07-17	Male	Italy
190	190	Harper	Ward	1995-10-26	Female	Mexico
191	191	Aiden	Ross	1988-01-19	Male	USA
192	192	Ella	Brooks	1991-06-02	Female	Canada
193	193	Liam	Ward	1984-09-28	Male	UK
194	194	Olivia	Ross	1990-12-15	Female	Australia
195	195	Noah	Brooks	1987-03-22	Male	USA
196	196	Ava	Ward	1993-08-11	Female	France
197	197	William	Ross	1985-05-04	Male	Germany
198	198	Sophia	Brooks	1992-10-19	Female	Spain
199	199	James	Ward	1986-11-30	Male	Taiwan
200	200	Isabella	Ross	1995-02-15	Female	

```
ALTER TABLE passengers ADD CONSTRAINT chk_passenger_min_age
CHECK (date_part('year', age(date_of_birth)) >= 10);
SELECT * FROM passengers;
```

2. Add a CHECK constraint to accept values in booking price not more than 50000tg and less than 0tg.

Database Explorer      `console_4 [postgres@localhost [2]]`

Database Sessions      `Output airport_bd.public.booking`

```
ALTER TABLE booking
ADD CONSTRAINT chk_booking_price_range
CHECK (ticket_price >= 0 AND ticket_price <= 50000);
SELECT *FROM booking;
```

booking_id	flight_id	passenger_id	booking_platform	created_at
1	1	5	12 Website	2025-09-24 09:56:14.0079
2	2	8	25 Mobile App	2025-09-30 13:42:42.4661
3	3	12	33 Travel Agency	2025-09-30 13:42:42.4661
4	4	7	7 Website	2025-09-30 13:42:42.4661
5	5	15	40 Mobile App	2025-09-30 13:42:42.4661
6	6	3	18 Travel Agency	2025-09-30 13:42:42.4661
7	7	9	55 Website	2025-09-30 13:42:42.4661
8	8	11	62 Mobile App	2025-09-30 13:42:42.4661
9	9	6	71 Travel Agency	2025-09-30 13:42:42.4661
10	10	10	83 Website	2025-09-30 13:42:42.4661
11	11	2	92 Mobile App	2025-09-30 13:42:42.4661
12	12	14	101 Travel Agency	2025-09-30 13:42:42.4661
13	13	1	115 Website	2025-09-30 13:42:42.4661
14	14	4	122 Mobile App	2025-09-30 13:42:42.4661
15	15	13	130 Travel Agency	2025-09-30 13:42:42.4661
...	...	...	...	...

Database Consoles > postgres@localhost [2] > `console_4 [postgres@localhost [2]]`

Database Explorer      `console_4 [postgres@localhost [2]]`

Database Sessions      `Output airport_bd.public.booking`

booking_id	flight_id	passenger_id	booking_platform	created_at
16	16	5	141 Website	2025-09-30 13:42:42.4661
17	17	8	152 Mobile App	2025-09-30 13:42:42.4661
18	18	12	163 Travel Agency	2025-09-30 13:42:42.4661
19	19	7	174 Website	2025-09-30 13:42:42.4661
20	20	15	185 Mobile App	2025-09-30 13:42:42.4661
21	21	3	33 Website	2025-09-30 14:13:35.1588
22	22	7	41 Mobile App	2025-09-30 14:13:35.1588
23	23	12	55 Travel Agency	2025-09-30 14:13:35.1588
24	24	5	61 Website	2025-09-30 14:13:35.1588
25	25	8	72 Mobile App	2025-09-30 14:13:35.1588
26	26	15	83 Travel Agency	2025-09-30 14:13:35.1588
27	27	9	94 Website	2025-09-30 14:13:35.1588
28	28	11	102 Mobile App	2025-09-30 14:13:35.1588
29	29	6	110 Travel Agency	2025-09-30 14:13:35.1588
30	30	10	123 Website	2025-09-30 14:13:35.1588
31	31	2	131 Mobile App	2025-09-30 14:13:35.1588
32	32	14	142 Travel Agency	2025-09-30 14:13:35.1588
33	33	1	150 Website	2025-09-30 14:13:35.1588
34	34	4	155 Mobile App	2025-09-30 14:13:35.1588
35	35	13	163 Travel Agency	2025-09-30 14:13:35.1588
36	36	5	171 Website	2025-09-30 14:13:35.1588

Database Consoles > postgres@localhost [2] > `console_4 [postgres@localhost [2]]`

The screenshot shows the Database Explorer interface in pgAdmin. On the left, the 'Database Sessions' tree shows a connection to 'postgres@localhost [2]' with a query named 'console\_4'. The main area displays the results of a query against the 'booking' table in the 'public' schema of the 'airport\_bd' database. The results are paginated at 200 rows. The columns are labeled: booking\_id, flight\_id, passenger\_id, booking\_platform, and created\_at. The data includes entries such as booking\_id 37 (flight\_id 37, passenger\_id 8, booking\_platform Mobile App, created\_at 2025-09-30 14:13:35.1588), booking\_id 38 (flight\_id 38, passenger\_id 12, booking\_platform Travel Agency, created\_at 2025-09-30 14:13:35.1588), and many other entries for different flights and platforms.

booking_id	flight_id	passenger_id	booking_platform	created_at
37	37	8	182 Mobile App	2025-09-30 14:13:35.1588
38	38	12	193 Travel Agency	2025-09-30 14:13:35.1588
39	39	7	200 Website	2025-09-30 14:13:35.1588
40	40	15	198 Mobile App	2025-09-30 14:13:35.1588
41	41	3	180 Website	2025-09-30 14:13:35.1588
42	42	7	175 Mobile App	2025-09-30 14:13:35.1588
43	43	12	160 Travel Agency	2025-09-30 14:13:35.1588
44	44	5	150 Website	2025-09-30 14:13:35.1588
45	45	8	140 Mobile App	2025-09-30 14:13:35.1588
46	46	15	130 Travel Agency	2025-09-30 14:13:35.1588
47	47	9	120 Website	2025-09-30 14:13:35.1588
48	48	11	110 Mobile App	2025-09-30 14:13:35.1588
49	49	6	100 Travel Agency	2025-09-30 14:13:35.1588
50	50	10	90 Website	2025-09-30 14:13:35.1588
51	51	2	80 Mobile App	2025-09-30 14:13:35.1588
52	52	14	70 Travel Agency	2025-09-30 14:13:35.1588
53	53	1	60 Website	2025-09-30 14:13:35.1588
54	54	4	50 Mobile App	2025-09-30 14:13:35.1588
55	55	13	45 Travel Agency	2025-09-30 14:13:35.1588
56	56	5	40 Website	2025-09-30 14:13:35.1588
57	57	8	35 Mobile App	2025-09-30 14:13:35.1588

The screenshot shows the Database Explorer interface in pgAdmin. On the left, the 'Database Sessions' tree shows a connection to 'postgres@localhost [2]'. A specific session, 'console\_4 420 ms', is selected. The main area displays a table named 'booking' with 200 rows. The columns are 'booking\_id', 'flight\_id', 'passenger\_id', 'booking\_platform', and 'created\_at'. The data includes entries for Travel Agency, Website, and Mobile App bookings.

booking_id	flight_id	passenger_id	booking_platform	created_at
58	58	12	38 Travel Agency	2025-09-30 14:13:35.1588
59	59	7	25 Website	2025-09-30 14:13:35.1588
60	60	15	20 Mobile App	2025-09-30 14:13:35.1588
61	61	3	15 Website	2025-09-30 14:13:35.1588
62	62	7	10 Mobile App	2025-09-30 14:13:35.1588
63	63	12	5 Travel Agency	2025-09-30 14:13:35.1588
64	64	5	2 Website	2025-09-30 14:13:35.1588
65	65	8	8 Mobile App	2025-09-30 14:13:35.1588
66	66	15	12 Travel Agency	2025-09-30 14:13:35.1588
67	67	9	19 Website	2025-09-30 14:13:35.1588
68	68	11	24 Mobile App	2025-09-30 14:13:35.1588
69	69	6	29 Travel Agency	2025-09-30 14:13:35.1588
70	70	10	34 Website	2025-09-30 14:13:35.1588
71	71	2	39 Mobile App	2025-09-30 14:13:35.1588
72	72	14	44 Travel Agency	2025-09-30 14:13:35.1588
73	73	1	49 Website	2025-09-30 14:13:35.1588
74	74	4	54 Mobile App	2025-09-30 14:13:35.1588
75	75	13	59 Travel Agency	2025-09-30 14:13:35.1588
76	76	5	64 Website	2025-09-30 14:13:35.1588
77	77	8	69 Mobile App	2025-09-30 14:13:35.1588
78	78	12	74 Travel Agency	2025-09-30 14:13:35.1588

The screenshot shows the Database Explorer interface in pgAdmin. On the left, the 'Database Sessions' tree shows a connection to 'postgres@localhost [2]'. The main area displays a table named 'booking' with 200 rows. The columns are 'booking\_id', 'flight\_id', 'passenger\_id', 'booking\_platform', and 'created\_at'. The data consists of 200 rows of booking information, with each row containing values for these five columns.

booking_id	flight_id	passenger_id	booking_platform	created_at
79	79	7	79 Website	2025-09-30 14:13:35.1588
80	80	15	84 Mobile App	2025-09-30 14:13:35.1588
81	81	3	89 Website	2025-09-30 14:13:35.1588
82	82	7	94 Mobile App	2025-09-30 14:13:35.1588
83	83	12	99 Travel Agency	2025-09-30 14:13:35.1588
84	84	5	104 Website	2025-09-30 14:13:35.1588
85	85	8	109 Mobile App	2025-09-30 14:13:35.1588
86	86	15	114 Travel Agency	2025-09-30 14:13:35.1588
87	87	9	119 Website	2025-09-30 14:13:35.1588
88	88	11	124 Mobile App	2025-09-30 14:13:35.1588
89	89	6	129 Travel Agency	2025-09-30 14:13:35.1588
90	90	10	134 Website	2025-09-30 14:13:35.1588
91	91	2	139 Mobile App	2025-09-30 14:13:35.1588
92	92	14	144 Travel Agency	2025-09-30 14:13:35.1588
93	93	1	149 Website	2025-09-30 14:13:35.1588
94	94	4	154 Mobile App	2025-09-30 14:13:35.1588
95	95	13	159 Travel Agency	2025-09-30 14:13:35.1588
96	96	5	164 Website	2025-09-30 14:13:35.1588
97	97	8	169 Mobile App	2025-09-30 14:13:35.1588
98	98	12	174 Travel Agency	2025-09-30 14:13:35.1588
99	99	7	179 Website	2025-09-30 14:13:35.1588

Database Explorer      console\_4 [postgres@localhost [2]]

Database Sessions

Tx +, -, D, C, D, X

Output airport\_bd.public.booking

booking\_id : flight\_id : passenger\_id : booking\_platform : created\_at

121	121	3	109 Website	2025-09-30 14:13:35.1910
122	122	7	114 Mobile App	2025-09-30 14:13:35.1910
123	123	12	119 Travel Agency	2025-09-30 14:13:35.1910
124	124	5	124 Website	2025-09-30 14:13:35.1910
125	125	8	129 Mobile App	2025-09-30 14:13:35.1910
126	126	15	134 Travel Agency	2025-09-30 14:13:35.1910
127	127	9	139 Website	2025-09-30 14:13:35.1910
128	128	11	144 Mobile App	2025-09-30 14:13:35.1910
129	129	6	149 Travel Agency	2025-09-30 14:13:35.1910
130	130	10	154 Website	2025-09-30 14:13:35.1910
131	131	2	159 Mobile App	2025-09-30 14:13:35.1910
132	132	14	164 Travel Agency	2025-09-30 14:13:35.1910
133	133	1	169 Website	2025-09-30 14:13:35.1910
134	134	4	174 Mobile App	2025-09-30 14:13:35.1910
135	135	13	179 Travel Agency	2025-09-30 14:13:35.1910
136	136	5	184 Website	2025-09-30 14:13:35.1910
137	137	8	189 Mobile App	2025-09-30 14:13:35.1910
138	138	12	194 Travel Agency	2025-09-30 14:13:35.1910
139	139	7	199 Website	2025-09-30 14:13:35.1910
140	140	15	196 Mobile App	2025-09-30 14:13:35.1910
141	141	3	191 Website	2025-09-30 14:13:35.1910

Database Consoles > postgres@localhost [2] > console\_4 [postgres@localhost [2]]

1:1 (133 chars, 3 line breaks) LF UTF-8 4 spaces ⌂ ⌂

Database Explorer      console\_4 [postgres@localhost [2]]

Database Sessions

Tx +, -, D, C, D, X

Output airport\_bd.public.booking

booking\_id : flight\_id : passenger\_id : booking\_platform : created\_at

142	142	7	186 Mobile App	2025-09-30 14:13:35.1910
143	143	12	181 Travel Agency	2025-09-30 14:13:35.1910
144	144	5	176 Website	2025-09-30 14:13:35.1910
145	145	8	171 Mobile App	2025-09-30 14:13:35.1910
146	146	15	166 Travel Agency	2025-09-30 14:13:35.1910
147	147	9	161 Website	2025-09-30 14:13:35.1910
148	148	11	156 Mobile App	2025-09-30 14:13:35.1910
149	149	6	151 Travel Agency	2025-09-30 14:13:35.1910
150	150	10	146 Website	2025-09-30 14:13:35.1910
151	151	2	141 Mobile App	2025-09-30 14:13:35.1910
152	152	14	136 Travel Agency	2025-09-30 14:13:35.1910
153	153	1	131 Website	2025-09-30 14:13:35.1910
154	154	4	126 Mobile App	2025-09-30 14:13:35.1910
155	155	13	121 Travel Agency	2025-09-30 14:13:35.1910
156	156	5	116 Website	2025-09-30 14:13:35.1910
157	157	8	111 Mobile App	2025-09-30 14:13:35.1910
158	158	12	106 Travel Agency	2025-09-30 14:13:35.1910
159	159	7	101 Website	2025-09-30 14:13:35.1910
160	160	15	96 Mobile App	2025-09-30 14:13:35.1910
161	161	3	91 Website	2025-09-30 14:13:35.1910
162	162	7	86 Mobile App	2025-09-30 14:13:35.1910

Database Consoles > postgres@localhost [2] > console\_4 [postgres@localhost [2]]

1:1 (133 chars, 3 line breaks) LF UTF-8 4 spaces ⌂ ⌂

The screenshot shows the Database Explorer interface in pgAdmin. A session named 'console\_4 [postgres@localhost [2]]' is active, displaying the contents of the 'booking' table from the 'public' schema of the 'airport\_bd' database. The table has 200 rows, and the columns are booking\_id, flight\_id, passenger\_id, booking\_platform, and created\_at. The data includes various travel agency and website entries.

booking_id	flight_id	passenger_id	booking_platform	created_at
163	163	12	81 Travel Agency	2025-09-30 14:13:35.1910
164	164	5	76 Website	2025-09-30 14:13:35.1910
165	165	8	71 Mobile App	2025-09-30 14:13:35.1910
166	166	15	66 Travel Agency	2025-09-30 14:13:35.1910
167	167	9	61 Website	2025-09-30 14:13:35.1910
168	168	11	56 Mobile App	2025-09-30 14:13:35.1910
169	169	6	51 Travel Agency	2025-09-30 14:13:35.1910
170	170	18	46 Website	2025-09-30 14:13:35.1910
171	171	2	41 Mobile App	2025-09-30 14:13:35.1910
172	172	14	36 Travel Agency	2025-09-30 14:13:35.1910
173	173	1	31 Website	2025-09-30 14:13:35.1910
174	174	4	26 Mobile App	2025-09-30 14:13:35.1910
175	175	13	21 Travel Agency	2025-09-30 14:13:35.1910
176	176	5	16 Website	2025-09-30 14:13:35.1910
177	177	8	11 Mobile App	2025-09-30 14:13:35.1910
178	178	12	6 Travel Agency	2025-09-30 14:13:35.1910
179	179	7	1 Website	2025-09-30 14:13:35.1910
180	180	15	3 Mobile App	2025-09-30 14:13:35.1910
181	181	3	8 Website	2025-09-30 14:13:35.1910
182	182	7	14 Mobile App	2025-09-30 14:13:35.1910
183	183	12	28 Travel Agency	2025-09-30 14:13:35.1910

Database Sessions

Output airport\_bd.public.booking

	booking_id	flight_id	passenger_id	booking_platform	created_at
184	184	5	27	Website	2025-09-30 14:13:35.1910
185	185	8	32	Mobile App	2025-09-30 14:13:35.1910
186	186	15	38	Travel Agency	2025-09-30 14:13:35.1910
187	187	9	43	Website	2025-09-30 14:13:35.1910
188	188	11	48	Mobile App	2025-09-30 14:13:35.1910
189	189	6	53	Travel Agency	2025-09-30 14:13:35.1910
190	190	10	58	Website	2025-09-30 14:13:35.1910
191	191	2	63	Mobile App	2025-09-30 14:13:35.1910
192	192	14	68	Travel Agency	2025-09-30 14:13:35.1910
193	193	1	73	Website	2025-09-30 14:13:35.1910
194	194	4	78	Mobile App	2025-09-30 14:13:35.1910
195	195	13	83	Travel Agency	2025-09-30 14:13:35.1910
196	196	5	88	Website	2025-09-30 14:13:35.1910
197	197	8	93	Mobile App	2025-09-30 14:13:35.1910
198	198	12	98	Travel Agency	2025-09-30 14:13:35.1910
199	199	7	103	Website	2025-09-30 14:13:35.1910
200	200	15	108	Mobile App	2025-09-30 14:13:35.1910

```
ALTER TABLE booking
ADD CONSTRAINT chk_booking_price_range
CHECK (ticket_price >= 0 AND ticket_price <= 50000);
SELECT * FROM booking;
```

### 3. Add a CHECK constraint to accept the luggage weight between 1 and 23 kg.

The screenshot shows the DataGrip IDE interface. On the left, the Database Explorer pane displays the schema of the 'baggage' table, which has columns: booking\_id, flight\_id, passenger\_id, booking\_platform, created\_at, updated\_at, status, and ticket\_price. On the right, the main console window contains the following SQL code:

```

1 ✓ SELECT * FROM baggage
WHERE weight_in_kg < 1 OR weight_in_kg > 23;
2
3
4 ✓ UPDATE baggage
SET weight_in_kg = 15.00
WHERE weight_in_kg < 1 OR weight_in_kg > 23;
5
6
7 ✓ ALTER TABLE baggage
DROP CONSTRAINT IF EXISTS chk_baggage_weight;
8
9
10 ✓ ALTER TABLE baggage
ADD CONSTRAINT chk_baggage_weight
CHECK (weight_in_kg BETWEEN 1 AND 23);
11
12 ✓ SELECT conname, pg_get_constraintdef(oid)
FROM pg_constraint
WHERE conrelid = 'baggage'::regclass;
13
14 ✓ SELECT * FROM baggage
WHERE weight_in_kg < 1 OR weight_in_kg > 23;
15
16
17
18
19
20
21
22
23
24
25

```

The screenshot shows the DataGrip IDE interface after the SQL code has been executed. The Database Explorer pane remains the same. The main console window now shows the results of the last query:

```

1 ✓ SELECT * FROM baggage
WHERE weight_in_kg < 1 OR weight_in_kg > 23;
2
3
4 ✓ UPDATE baggage
SET weight_in_kg = 15.00
WHERE weight_in_kg < 1 OR weight_in_kg > 23;
5
6
7 ✓ ALTER TABLE baggage
DROP CONSTRAINT IF EXISTS chk_baggage_weight;
8
9
10 ✓ ALTER TABLE baggage
ADD CONSTRAINT chk_baggage_weight
CHECK (weight_in_kg BETWEEN 1 AND 23);
11
12
13

```

Below the console, the Results tab is open, displaying the output of the last query:

conname	pg_get_constraintdef
baggage_pkey	PRIMARY KEY (baggage_id)
fk_baggage_booking	FOREIGN KEY (booking_id) REFERENCES booking(booking_id)
chk_baggage_weight	CHECK ((weight_in_kg >= (1)::numeric) AND (weight_in_kg <= (23)::numeric)))

```

SELECT * FROM baggage
WHERE weight_in_kg < 1 OR weight_in_kg > 23;

UPDATE baggage
SET weight_in_kg = 15.00
WHERE weight_in_kg < 1 OR weight_in_kg > 23;

ALTER TABLE baggage
DROP CONSTRAINT IF EXISTS chk_baggage_weight;

ALTER TABLE baggage
ADD CONSTRAINT chk_baggage_weight
CHECK (weight_in_kg BETWEEN 1 AND 23);

SELECT conname, pg_get_constraintdef(oid)
FROM pg_constraint
WHERE conrelid = 'baggage'::regclass;

SELECT * FROM baggage
WHERE weight_in_kg < 1 OR weight_in_kg > 23;

```

- 4.** Add a CHECK constraint to ensure that all values in airport\_name must have at least 10 characters.

The screenshot shows the DataGrip IDE interface. The Database Explorer panel on the left lists the database structure, including the 'airport' table under the 'public' schema. The central terminal window contains the following SQL code:

```

SELECT * FROM airport
WHERE char_length(trim(airport_name)) < 10;

UPDATE airport
SET airport_name = airport_name || ' Airport'
WHERE char_length(trim(airport_name)) < 10;

ALTER TABLE airport
ADD CONSTRAINT chk_airport_name_length
CHECK (char_length(trim(airport_name)) >= 10);

SELECT conname, pg_get_constraintdef(oid)
FROM pg_constraint
WHERE conrelid = 'airport'::regclass;

```

The Results tab below the terminal shows the output of the last query, listing the primary key constraint and the newly added check constraint:

conname	pg_get_constraintdef
airport_pkey	PRIMARY KEY (airport_id)
chk_airport_name_length	CHECK ((char_length(TRIM(BOTH FROM airport_name)) >= 10))

```

SELECT * FROM airport
WHERE char_length(trim(airport_name)) < 10;

UPDATE airport
SET airport_name = airport_name || ' Airport'
WHERE char_length(trim(airport_name)) < 10;

```

```

ALTER TABLE airport
ADD CONSTRAINT chk_airport_name_length
CHECK (char_length(trim(airport_name)) >= 10);

SELECT conname, pg_get_constraintdef(oid)
FROM pg_constraint
WHERE conrelid = 'airport'::regclass;

```

## 5. Add UNIQUE constraint to some columns in each table in database.

The screenshot shows the DataGrip IDE interface. On the left, the Database Explorer tree shows 'Database Sessions' expanded, with 'Database' and 'postgres@localhost [2]' selected. A sub-node 'console\_4' is also visible. The main area displays a table titled 'Result 25-11' with the following data:

table_name	conname	contype	pg_get_constraintdef
pg_default_acl	pg_default_acl_role_nsp_obj_index	u	UNIQUE (defaclrole, defaclobj)
pg_tablespace	pg_tablespace_spcname_index	u	UNIQUE (spcname)
pg_type	pg_type_typname_nsp_index	u	UNIQUE (typname, typnamespace)
pg_attribute	pg_attribute_relid_attname_index	u	UNIQUE (attrelid, attname)
pg_proc	pg_proc_proname_args_nsp_index	u	UNIQUE (proname, proargtype)
pg_class	pg_class_relname_nsp_index	u	UNIQUE (relname, relnamespace)
pg_authid	pg_authid rolname_index	u	UNIQUE (rolname)
pg_auth_members	pg_auth_members_role_member_index	u	UNIQUE (roleid, member, group)
pg_auth_members	pg_auth_members_member_role_index	u	UNIQUE (member, roleid, group)
pg_database	pg_database_datname_index	u	UNIQUE (datname)
pg_foreign_server	pg_foreign_server_name_index	u	UNIQUE (srvname)
pg_user_mapping	pg_user_mapping_user_server_index	u	UNIQUE (umuser, umserver)
pg_foreign_data_wrapper	pg_foreign_data_wrapper_name_index	u	UNIQUE (fdwname)
pg_am	pg_am_name_index	u	UNIQUE (amname)
pg_amop	pg_amop_fam_strat_index	u	UNIQUE (amopfamily, amopfamstrat)
pg_amop	pg_amop_opr_fam_index	u	UNIQUE (amopopr, amoppurpose)
pg_amproc	pg_amproc_fam_proc_index	u	UNIQUE (amprocfamily, amprocname)
pg_attrdef	pg_attrdef_adrelid_adnum_index	u	UNIQUE (adrelid, adnum)
pg_cast	pg_cast_source_target_index	u	UNIQUE (castsource, casttarget)
pg_constraint	pg_constraint_conrelid_contypid_connname_index	u	UNIQUE (conrelid, contypid, connname)
pg_conversion	pg_conversion_default_index	u	UNIQUE (connamespace, confconf)

Database Explorer      Database Sessions

Output Result 23-14      Result 25-11

table_name	conname	contype	pg_get_constraintdef
pg_conversion	pg_conversion_name_nsp_index	u	UNIQUE (conname, connamespac
pg_language	pg_language_name_index	u	UNIQUE (lanname)
pg_namespace	pg_namespace_nsname_index	u	UNIQUE (nsname)
pg_opclass	pg_opclass_am_name_nsp_index	u	UNIQUE (opcmethod, opcname,
pg_operator	pg_operator_oprname_l_r_n_index	u	UNIQUE (oprname, oprleft, o
pg_rewrite	pg_rewrite_rel_rulename_index	u	UNIQUE (ev_class, rulename)
pg_trigger	pg_trigger_tgrelid_tgname_index	u	UNIQUE (tgrelid, tgname)
pg_opfamily	pg_opfamily_am_name_nsp_index	u	UNIQUE (opfmethod, opfname,
pg_extension	pg_extension_name_index	u	UNIQUE (extname)
pg_policy	pg_policy_polrelid_polname_index	u	UNIQUE (polrelid, polname)
pg_statistic_ext	pg_statistic_ext_name_index	u	UNIQUE (stxname, stxnamespa
pg_collation	pg_collation_name_enc_nsp_index	u	UNIQUE (colname, collenc
pg_event_trigger	pg_event_trigger_evname_index	u	UNIQUE (evname)
pg_enum	pg_enum_typid_sortorder_index	u	UNIQUE (enumtypid, enumsort
pg_enum	pg_enum_typid_label_index	u	UNIQUE (enumtypid, enumlab
pg_range	pg_range_rngmultitypid_index	u	UNIQUE (rangemultitypid)
pg_transform	pg_transform_type_lang_index	u	UNIQUE (transformtype, lang
pg_ts_dict	pg_ts_dict_dictname_index	u	UNIQUE (dictname, dictnames
pg_ts_parser	pg_ts_parser_prsname_index	u	UNIQUE (prsname, prsnamesp
pg_ts_config	pg_ts_config_cfgname_index	u	UNIQUE (cfgname, cfgnamesp
pg_ts_template	pg_ts_template_tmplname_index	u	UNIQUE (tmplname, tmplnames

Database Consoles > postgres@localhost [2] > Database Explorer      4:1 LF UTF-8 4 spaces

Database Explorer      Database Sessions

Output Result 23-14      Result 25-11

table_name	conname	contype	pg_get_constraintdef
pg_ts_dict	pg_ts_dict_dictname_index	u	UNIQUE (dictname, dictnames
pg_ts_parser	pg_ts_parser_prsname_index	u	UNIQUE (prsname, prsnamesp
pg_ts_config	pg_ts_config_cfgname_index	u	UNIQUE (cfgname, cfgnamesp
pg_ts_template	pg_ts_template_tmplname_index	u	UNIQUE (tmplname, tmplnames
pg_replication_origin	pg_replication_origin_roname_index	u	UNIQUE (roname)
pg_subscription	pg_subscription_subname_index	u	UNIQUE (subbid, subname)
pg_publication	pg_publication_pubname_index	u	UNIQUE (pubname)
pg_publication_rel	pg_publication_rel_prellid_prpubid_index	u	UNIQUE (prrelid, prpubid)
pg_publication_namespace	pg_publication_namespace_pnnspid_pnppubid_i...	u	UNIQUE (pnnspid, pnppubid)
pg_parameter_acl	pg_parameter_acl_parname_index	u	UNIQUE (parname)
baggage_check	uq_baggage_check	u	UNIQUE (booking_id, passeng
boarding_pass	uq_boarding_pass	u	UNIQUE (booking_id, seat)
booking_flight	uq_booking_flight	u	UNIQUE (booking_id, flight_
booking	uq_booking_flight_passenger	u	UNIQUE (flight_id, passenge
flights	uq_flight_route	u	UNIQUE (departing_airport_i
passengers	uq_passenger_passport	u	UNIQUE (passport_number)

Database Consoles > postgres@localhost [2] > Database Explorer      4:1 LF UTF-8 4 spaces

```
ALTER TABLE airline
ADD CONSTRAINT uq_airline_code UNIQUE (airline_code);

ALTER TABLE airport
ADD CONSTRAINT uq_airport_name UNIQUE (airport_name);

ALTER TABLE baggage
```

```

ADD CONSTRAINT uq_baggage_booking UNIQUE (booking_id);

ALTER TABLE baggage_check
ADD CONSTRAINT uq_baggage_check UNIQUE (booking_id, passenger_id);

ALTER TABLE boarding_pass
ADD CONSTRAINT uq_boarding_pass UNIQUE (booking_id, seat);

ALTER TABLE booking_flight
ADD CONSTRAINT uq_booking_flight UNIQUE (booking_id, flight_id);

ALTER TABLE booking
ADD CONSTRAINT uq_booking_flight_passenger UNIQUE (flight_id,
passenger_id);

ALTER TABLE flights
ADD CONSTRAINT uq_flight_route UNIQUE (departing_airport_id,
arriving_airport_id, act_departure_time);

ALTER TABLE passengers
ADD CONSTRAINT uq_passenger_passport UNIQUE (passport_number);

ALTER TABLE security_check
ADD CONSTRAINT uq_security_check UNIQUE (passenger_id);

SELECT conrelid::regclass AS table_name, conname, contype,
pg_get_constraintdef(oid)
FROM pg_constraint
WHERE contype = 'u'
ORDER BY table_name;

```

- 6.** Add a CHECK constraint to ensure that male passengers must be at least 18 years old and female passengers must be 19 years old.

```

ALTER TABLE passengers
ADD CONSTRAINT chk_gender_age
CHECK (
    (gender IN ('M', 'Male') AND date_part('year',
age(date_of_birth)) >= 18)
    OR (gender IN ('F', 'Female') AND date_part('year',
age(date_of_birth)) >= 19)
);
SELECT conname, pg_get_constraintdef(oid)
FROM pg_constraint
WHERE conrelid = 'passengers'::regclass;

```

```

ALTER TABLE passengers
ADD CONSTRAINT chk_gender_age
CHECK (
    (gender IN ('M', 'Male') AND date_part('year', age(date_of_birth)) >= 18)
    OR (gender IN ('F', 'Female') AND date_part('year', age(date_of_birth)) >= 19)
);
SELECT conname, pg_get_constraintdef(oid)
FROM pg_constraint
WHERE conrelid = 'passengers'::regclass;

```

The screenshot shows the pgAdmin 4 interface. In the Database Explorer, the 'passengers' table is selected. In the main pane, a SQL editor window titled 'console\_4 [postgres@localhost [2]]' contains the code above. Below it, an 'Output' window shows the results of the query, listing four constraints: 'passenger\_pkey' (PRIMARY KEY), 'chk\_passenger\_min\_age' (CHECK), 'uq\_passenger\_passport' (UNIQUE), and 'chk\_gender\_age' (CHECK). The status bar at the bottom indicates the session is active for 347 ms.

7. Add a CHECK constraint to add rule as follow (use column country\_of\_citizenship):

- Passengers from Kazakhstan must be at least 18 years old.
- Passengers from France must be at least 17 years old.
- Passengers from other countries must be at least 19 years old.

```

ALTER TABLE passengers
ADD CONSTRAINT chk_country_age
CHECK (
    (country_of_citizenship = 'Kazakhstan' AND date_part('year',
age(date_of_birth)) >= 18)
    OR (country_of_citizenship = 'France' AND date_part('year',
age(date_of_birth)) >= 17)
    OR (country_of_citizenship NOT IN ('Kazakhstan', 'France')
        AND date_part('year', age(date_of_birth)) >= 19)
);
SELECT conname, pg_get_constraintdef(oid)
FROM pg_constraint
WHERE conrelid = 'passengers'::regclass;

```

```

ALTER TABLE passengers
ADD CONSTRAINT chk_country_age
CHECK (
    (country_of_citizenship = 'Kazakhstan' AND date_part('year', age(date_of_birth)) >= 18)
    OR (country_of_citizenship = 'France' AND date_part('year', age(date_of_birth)) >= 17)
    OR (country_of_citizenship NOT IN ('Kazakhstan', 'France')
        AND date_part('year', age(date_of_birth)) >= 19)
);
SELECT conname, pg_get_constraintdef(oid)
FROM pg_constraint
WHERE conrelid = 'passengers'::regclass;

```

Database Sessions

conname	pg_get_constraintdef
uq_passenger_passport	UNIQUE (passport_number)
passengers_pkey	PRIMARY KEY (passenger_id)
chk_passenger_min_age	CHECK ((date_part('year)::text, age((date_...))::text) >= 18)
chk_gender_age	CHECK (((gender)::text = ANY ((ARRAY['M' ..]))))
chk_country_age	CHECK (((country_of_citizenship)::text = ANY ((ARRAY['Kazakhstan' ..]))))

8. Add a ticket\_discount column to table booking and a CHECK constraint to apply some discount based on ticket price and created time:

- the constraint applies a 5% discount for tickets created after 2024-01-01,  
and 10% discount for tickets created before 2024-01-01.

Database Explorer

postgres@localhost [2]

- databases 6
- airport\_bd 1 of 3
- schemas 1

Database Sessions

Tx

Database Sessions

Database postgres@localhost [2]

console\_4 17 ms

console\_4 [postgres@localhost [2]]

Tx: Auto | Playground

```
ALTER TABLE booking
ADD COLUMN ticket_discount DECIMAL(7,2);

INSERT INTO booking (booking_id, flight_id, passenger_id, booking_platform, created_at, updated_at, status)
VALUES
```

Output Result 29

connname	pg_get_constraintdef
uq_passenger_passport	UNIQUE (passport_number)
passengers_pkey	PRIMARY KEY (passenger_id)
chk_passenger_min_age	CHECK ((date_part('year)::text, age((date...
chk_gender_age	CHECK (((gender)::text = ANY ((ARRAY['M...
chk_country_age	CHECK (((country_of_citizenship)::text ...

```
ALTER TABLE booking
ADD COLUMN ticket_discount DECIMAL(7,2);

INSERT INTO booking (booking_id, flight_id, passenger_id, booking_platform,
created_at, updated_at, status, ticket_price, ticket_discount)
VALUES
(202, 101, 202, 'web', '2025-05-10', NOW(), 'confirmed', 40000, 2000),
(203, 102, 203, 'mobile', '2023-12-15', NOW(), 'confirmed', 30000, 3000);

ALTER TABLE booking
ADD CONSTRAINT chk_ticket_discount_date
CHECK (
    (created_at > '2024-01-01' AND ticket_discount = ROUND(ticket_price * 0.05, 2))
    OR (created_at <= '2024-01-01' AND ticket_discount = ROUND(ticket_price * 0.10, 2))
);

SELECT conname, pg_get_constraintdef(oid)
FROM pg_constraint
WHERE conrelid = 'booking'::regclass;
```

