

Exercise 3.7

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1.

The screenshot shows the pgAdmin 4 interface. The left sidebar displays the database structure for 'Rockbuster' on a 'PostgreSQL 15' server. The 'Tables' folder is expanded, showing tables like 'actor', 'address', 'category', 'city', 'country', 'customer', 'employee3', 'film', 'film_2', and 'film_actor'. The main pane shows a SQL query in the 'Query' tab:

```
1 Select Count(A.customer_id) AS count_customer_id,  
2 D.country  
3 From customer A  
4 Inner Join address B ON A.address_id = B.address_id  
5 Inner Join city C ON B.city_id = C.city_id  
6 Inner Join country D ON C.country_id = D.country_id  
7 Group By D.country  
8 Order By count_customer_id Desc  
9 Limit 10;  
10
```

The 'Data Output' tab shows the results of the query:

count_customer_id	country
60	India
53	China
36	United States
31	Japan
30	Mexico
28	Brazil
28	Russian Federation
20	Philippines
15	Turkey
14	Indonesia

The status bar at the bottom indicates 'Total rows: 10 of 10' and 'Query complete 00:00:00.238'.

2.

The screenshot shows the pgAdmin 4 interface. The left sidebar displays the database structure for 'Rockbuster' on a 'PostgreSQL 15' server. The 'Tables' folder is expanded, showing tables like 'actor', 'address', 'category', 'city', 'country', 'customer', 'employee3', 'film', 'film_2', and 'film_actor'. The main pane shows a SQL query in the 'Query' tab:

```
1 Select Count(A.customer_id) AS count_customer_id,  
2 C.city,  
3 D.country  
4 From customer A  
5 Inner Join address B ON A.address_id = B.address_id  
6 Inner Join city C ON B.city_id = C.city_id  
7 Inner Join country D ON C.country_id = D.country_id  
8 Where D.country IN ('India',  
9 'China',  
10 'United States',  
11 'Japan',  
12 'Mexico',  
13 'Brazil',  
14 'Russian Federation',  
15 'Philippines',  
16 'Turkey',  
17 'Indonesia')  
18 Group By C.city,  
19 D.country  
20 Order by count_customer_id DESC;  
21
```

The 'Data Output' tab shows the results of the query:

count_customer_id	city	country
2	Aurora	United States
1	Atlixco	Mexico
1	Pingxiang	China
1	Adoni	India
1	Dhule (Dhulas)	India
1	Kurashiki	Japan
1	Xintai	China
1	Sivas	Turkey
1	Celaya	Mexico
1	Nezahualcoyotl	Mexico

The status bar at the bottom indicates 'Total rows: 294 of 294' and 'Query complete 00:00:00.100'.

3.

The screenshot shows the pgAdmin 4 interface. The left sidebar displays the database structure for 'Rockbuster', including Casts, Catalogs, Event Triggers, Extensions, Foreign Data Wrappers, Languages, Publications, Schemas, Subscriptions, postgres, Login/Group Roles, and Tablespaces. The main pane shows a SQL query in the 'Query' tab, which is a complex join query involving tables A, B, C, D, and E. The query selects customer information and payment amounts, filtered by city. The 'Data Output' pane at the bottom shows the results of the query, displaying 5 rows of data with columns: customer_id, first_name, last_name, city, country, and payment_amt. The status bar at the bottom indicates the query is complete and shows the current line and column.

```
1 Select A.customer_id,
2       A.first_name,
3       A.last_name,
4       C.city,
5       D.country,
6       Sum(E.amount) AS payment_amt
7 From customer A
8 Inner Join address B ON A.address_id = B.address_id
9 Inner Join city C ON B.city_id = C.city_id
10 Inner Join country D ON C.country_id = D.country_id
11 Inner Join payment E ON A.customer_id = E.customer_id
12 Where C.city IN ('Aurora',
13                 'Atlixco',
14                 'Pingziang',
15                 'Adoni',
16                 'Dhule(Dhulia)',
17                 'Kirashikki',
18                 'Kintai',
19                 'Sivas',
20                 'Celaya',
21                 'Nezahualcyotl')
22 Group By A.customer_id,
23          A.first_name,
24          A.last_name,
25          C.city,
26          D.country
27 Order by payment_amt DESC
28 Limit 5;
```

customer_id	first_name	last_name	city	country	payment_amt
84	Sara	Perry	Atlixco	Mexico	128.70
518	Gabriel	Harder	Sivas	Turkey	108.75
587	Sergio	Stanfield	Celaya	Mexico	102.76
537	Clinton	Buford	Aurora	United States	98.76
367	Adam	Gooch	Adoni	India	97.80

Total rows: 5 of 5 Query complete 00:00:00.095 Ln 21, Col 20