

L1 E2 - 1 - Slicing and Dicing

February 6, 2023

1 Exercise 02 - OLAP Cubes - Slicing and Dicing

All the databases table in this demo are based on public database samples and transformations - Sakila is a sample database created by MySQL [Link](#) - The postgresql version of it is called Pagila [Link](#) - The facts and dimension tables design is based on O'Reilly's public dimensional modelling tutorial schema [Link](#)

Start by creating and connecting to the database by running the cells below.

```
In [6]: !PGPASSWORD=student createdb -h 127.0.0.1 -U student pagila_star
        !PGPASSWORD=student psql -q -h 127.0.0.1 -U student -d pagila_star -f Data/pagila-star.s
```

```
createdb: database creation failed: ERROR: database "pagila_star" already exists
set_config
-----
```

```
(1 row)
```

```
psql:Data/pagila-star.sql:41: ERROR: type "mpaa_rating" already exists
psql:Data/pagila-star.sql:51: ERROR: type "year" already exists
psql:Data/pagila-star.sql:68: ERROR: function "_group_concat" already exists with same argument
psql:Data/pagila-star.sql:85: ERROR: function "film_in_stock" already exists with same argument
psql:Data/pagila-star.sql:102: ERROR: function "film_not_in_stock" already exists with same arg
psql:Data/pagila-star.sql:147: ERROR: function "get_customer_balance" already exists with same
psql:Data/pagila-star.sql:169: ERROR: function "inventory_held_by_customer" already exists with
psql:Data/pagila-star.sql:206: ERROR: function "inventory_in_stock" already exists with same ar
psql:Data/pagila-star.sql:224: ERROR: function "last_day" already exists with same argument typ
psql:Data/pagila-star.sql:239: ERROR: function "last_updated" already exists with same argument
psql:Data/pagila-star.sql:263: ERROR: relation "customer" already exists
psql:Data/pagila-star.sql:327: ERROR: function "rewards_report" already exists with same argume
psql:Data/pagila-star.sql:339: ERROR: function "group_concat" already exists with same argument
psql:Data/pagila-star.sql:353: ERROR: relation "actor_actor_id_seq" already exists
psql:Data/pagila-star.sql:367: ERROR: relation "actor" already exists
psql:Data/pagila-star.sql:381: ERROR: relation "category_category_id_seq" already exists
psql:Data/pagila-star.sql:394: ERROR: relation "category" already exists
psql:Data/pagila-star.sql:408: ERROR: relation "film_film_id_seq" already exists
psql:Data/pagila-star.sql:432: ERROR: relation "film" already exists
psql:Data/pagila-star.sql:445: ERROR: relation "film_actor" already exists
```

```

psql:Data/pagila-star.sql:458: ERROR:  relation "film_category" already exists
psql:Data/pagila-star.sql:481: ERROR:  relation "actor_info" already exists
psql:Data/pagila-star.sql:495: ERROR:  relation "address_address_id_seq" already exists
psql:Data/pagila-star.sql:513: ERROR:  relation "address" already exists
psql:Data/pagila-star.sql:527: ERROR:  relation "city_city_id_seq" already exists
psql:Data/pagila-star.sql:541: ERROR:  relation "city" already exists
psql:Data/pagila-star.sql:555: ERROR:  relation "country_country_id_seq" already exists
psql:Data/pagila-star.sql:568: ERROR:  relation "country" already exists
psql:Data/pagila-star.sql:582: ERROR:  relation "customer_customer_id_seq" already exists
psql:Data/pagila-star.sql:596: ERROR:  relation "customer_customer_id_seq1" already exists
psql:Data/pagila-star.sql:628: ERROR:  relation "customer_list" already exists
psql:Data/pagila-star.sql:654: ERROR:  relation "dimcustomer" already exists
psql:Data/pagila-star.sql:668: ERROR:  relation "dimcustomer_customer_key_seq" already exists
psql:Data/pagila-star.sql:693: ERROR:  relation "dimdate" already exists
psql:Data/pagila-star.sql:714: ERROR:  relation "dimmovie" already exists
psql:Data/pagila-star.sql:728: ERROR:  relation "dimmovie_movie_key_seq" already exists
psql:Data/pagila-star.sql:757: ERROR:  relation "dimstore" already exists
psql:Data/pagila-star.sql:771: ERROR:  relation "dimstore_store_key_seq" already exists
psql:Data/pagila-star.sql:794: ERROR:  relation "factsales" already exists
psql:Data/pagila-star.sql:808: ERROR:  relation "factsales_sales_key_seq" already exists
psql:Data/pagila-star.sql:838: ERROR:  relation "film_list" already exists
psql:Data/pagila-star.sql:852: ERROR:  relation "inventory_inventory_id_seq" already exists
psql:Data/pagila-star.sql:866: ERROR:  relation "inventory" already exists
psql:Data/pagila-star.sql:880: ERROR:  relation "language_language_id_seq" already exists
psql:Data/pagila-star.sql:893: ERROR:  relation "language" already exists
psql:Data/pagila-star.sql:916: ERROR:  relation "nicer_but_slower_film_list" already exists
psql:Data/pagila-star.sql:930: ERROR:  relation "payment_payment_id_seq" already exists
psql:Data/pagila-star.sql:946: ERROR:  relation "payment" already exists
psql:Data/pagila-star.sql:960: ERROR:  relation "rental_rental_id_seq" already exists
psql:Data/pagila-star.sql:977: ERROR:  relation "rental" already exists
psql:Data/pagila-star.sql:996: ERROR:  relation "sales_by_film_category" already exists
psql:Data/pagila-star.sql:1010: ERROR:  relation "staff_staff_id_seq" already exists
psql:Data/pagila-star.sql:1031: ERROR:  relation "staff" already exists
psql:Data/pagila-star.sql:1045: ERROR:  relation "store_store_id_seq" already exists
psql:Data/pagila-star.sql:1059: ERROR:  relation "store" already exists
psql:Data/pagila-star.sql:1081: ERROR:  relation "sales_by_store" already exists
psql:Data/pagila-star.sql:1102: ERROR:  relation "staff_list" already exists
psql:Data/pagila-star.sql:1347: ERROR:  duplicate key value violates unique constraint "actor_pk"
DETAIL:  Key (actor_id)=(1) already exists.
CONTEXT:  COPY actor, line 1
         setval
-----
         200
(1 row)

psql:Data/pagila-star.sql:1965: ERROR:  duplicate key value violates unique constraint "address_pk"
DETAIL:  Key (address_id)=(1) already exists.
CONTEXT:  COPY address, line 1

```

```

    setval
-----
        605
(1 row)

psql:Data/pagila-star.sql:1996: ERROR:  duplicate key value violates unique constraint "category_
DETAIL:  Key (category_id)=(1) already exists.
CONTEXT:  COPY category, line 1
    setval
-----
        16
(1 row)

psql:Data/pagila-star.sql:2611: ERROR:  duplicate key value violates unique constraint "city_pke
DETAIL:  Key (city_id)=(1) already exists.
CONTEXT:  COPY city, line 1
    setval
-----
        600
(1 row)

psql:Data/pagila-star.sql:2735: ERROR:  duplicate key value violates unique constraint "country_
DETAIL:  Key (country_id)=(1) already exists.
CONTEXT:  COPY country, line 1
    setval
-----
        109
(1 row)

psql:Data/pagila-star.sql:3349: ERROR:  duplicate key value violates unique constraint "customer
DETAIL:  Key (customer_id)=(1) already exists.
CONTEXT:  COPY customer, line 1
    setval
-----
        599
(1 row)

    setval
-----
        1
(1 row)

psql:Data/pagila-star.sql:3970: ERROR:  duplicate key value violates unique constraint "dimcusto
DETAIL:  Key (customer_key)=(1) already exists.
CONTEXT:  COPY dimcustomer, line 1
    setval
-----
        1

```

(1 row)

psql:Data/pagila-star.sql:4025: ERROR: duplicate key value violates unique constraint "dimdate_

DETAIL: Key (date_key)=(20170216) already exists.

CONTEXT: COPY dimdate, line 1

psql:Data/pagila-star.sql:5033: ERROR: duplicate key value violates unique constraint "dimmovie

DETAIL: Key (movie_key)=(1) already exists.

CONTEXT: COPY dimmovie, line 1

setval

1

(1 row)

psql:Data/pagila-star.sql:5050: ERROR: duplicate key value violates unique constraint "dimstore

DETAIL: Key (store_key)=(1) already exists.

CONTEXT: COPY dimstore, line 1

setval

1

(1 row)

psql:Data/pagila-star.sql:21114: ERROR: duplicate key value violates unique constraint "factsal

DETAIL: Key (sales_key)=(1) already exists.

CONTEXT: COPY factsales, line 1

setval

16049

(1 row)

psql:Data/pagila-star.sql:22129: ERROR: duplicate key value violates unique constraint "film_pk

DETAIL: Key (film_id)=(1) already exists.

CONTEXT: COPY film, line 1: "1 ACADEMY DINOSAUR A Epic Drama of a Feminist And a

psql:Data/pagila-star.sql:27599: ERROR: duplicate key value violates unique constraint "film_ac

DETAIL: Key (actor_id, film_id)=(1, 1) already exists.

CONTEXT: COPY film_actor, line 1

psql:Data/pagila-star.sql:28607: ERROR: duplicate key value violates unique constraint "film_ca

DETAIL: Key (film_id, category_id)=(1, 6) already exists.

CONTEXT: COPY film_category, line 1

setval

1000

(1 row)

psql:Data/pagila-star.sql:33203: ERROR: duplicate key value violates unique constraint "invento

DETAIL: Key (inventory_id)=(1) already exists.

CONTEXT: COPY inventory, line 1

setval

4581
(1 row)

psql:Data/pagila-star.sql:33224: ERROR: duplicate key value violates unique constraint "language_id"
DETAIL: Key (language_id)=(1) already exists.
CONTEXT: COPY language, line 1
setval

6
(1 row)

setval

32098
(1 row)

psql:Data/pagila-star.sql:81396: ERROR: duplicate key value violates unique constraint "rental_id"
DETAIL: Key (rental_id)=(2) already exists.
CONTEXT: COPY rental, line 1
setval

16049
(1 row)

psql:Data/pagila-star.sql:81413: ERROR: duplicate key value violates unique constraint "staff_id"
DETAIL: Key (staff_id)=(1) already exists.
CONTEXT: COPY staff, line 1
setval

2
(1 row)

psql:Data/pagila-star.sql:81430: ERROR: duplicate key value violates unique constraint "store_id"
DETAIL: Key (store_id)=(1) already exists.
CONTEXT: COPY store, line 1
setval

2
(1 row)

psql:Data/pagila-star.sql:81445: ERROR: multiple primary keys for table "actor" are not allowed
psql:Data/pagila-star.sql:81453: ERROR: multiple primary keys for table "address" are not allowed
psql:Data/pagila-star.sql:81461: ERROR: multiple primary keys for table "category" are not allowed
psql:Data/pagila-star.sql:81469: ERROR: multiple primary keys for table "city" are not allowed
psql:Data/pagila-star.sql:81477: ERROR: multiple primary keys for table "country" are not allowed
psql:Data/pagila-star.sql:81485: ERROR: multiple primary keys for table "customer" are not allowed
psql:Data/pagila-star.sql:81493: ERROR: multiple primary keys for table "dimcustomer" are not allowed
psql:Data/pagila-star.sql:81501: ERROR: multiple primary keys for table "dimdate" are not allowed

```

psql:Data/pagila-star.sql:81509: ERROR: multiple primary keys for table "dimmovie" are not allowed
psql:Data/pagila-star.sql:81517: ERROR: multiple primary keys for table "dimstore" are not allowed
psql:Data/pagila-star.sql:81525: ERROR: multiple primary keys for table "factsales" are not allowed
psql:Data/pagila-star.sql:81533: ERROR: multiple primary keys for table "film_actor" are not allowed
psql:Data/pagila-star.sql:81541: ERROR: multiple primary keys for table "film_category" are not allowed
psql:Data/pagila-star.sql:81549: ERROR: multiple primary keys for table "film" are not allowed
psql:Data/pagila-star.sql:81557: ERROR: multiple primary keys for table "inventory" are not allowed
psql:Data/pagila-star.sql:81565: ERROR: multiple primary keys for table "language" are not allowed
psql:Data/pagila-star.sql:81573: ERROR: multiple primary keys for table "rental" are not allowed
psql:Data/pagila-star.sql:81581: ERROR: multiple primary keys for table "staff" are not allowed
psql:Data/pagila-star.sql:81589: ERROR: multiple primary keys for table "store" are not allowed
psql:Data/pagila-star.sql:81596: ERROR: relation "film_fulltext_idx" already exists
psql:Data/pagila-star.sql:81603: ERROR: relation "idx_actor_last_name" already exists
psql:Data/pagila-star.sql:81610: ERROR: relation "idx_fk_address_id" already exists
psql:Data/pagila-star.sql:81617: ERROR: relation "idx_fk_city_id" already exists
psql:Data/pagila-star.sql:81624: ERROR: relation "idx_fk_country_id" already exists
psql:Data/pagila-star.sql:81631: ERROR: relation "idx_fk_customer_id" already exists
psql:Data/pagila-star.sql:81638: ERROR: relation "idx_fk_film_id" already exists
psql:Data/pagila-star.sql:81645: ERROR: relation "idx_fk_inventory_id" already exists
psql:Data/pagila-star.sql:81652: ERROR: relation "idx_fk_language_id" already exists
psql:Data/pagila-star.sql:81659: ERROR: relation "idx_fk_original_language_id" already exists
psql:Data/pagila-star.sql:81666: ERROR: relation "idx_fk_payment_customer_id" already exists
psql:Data/pagila-star.sql:81673: ERROR: relation "idx_fk_payment_staff_id" already exists
psql:Data/pagila-star.sql:81680: ERROR: relation "idx_fk_store_id" already exists
psql:Data/pagila-star.sql:81687: ERROR: relation "idx_last_name" already exists
psql:Data/pagila-star.sql:81694: ERROR: relation "idx_store_id_film_id" already exists
psql:Data/pagila-star.sql:81701: ERROR: relation "idx_title" already exists
psql:Data/pagila-star.sql:81708: ERROR: relation "idx_unq_manager_staff_id" already exists
psql:Data/pagila-star.sql:81715: ERROR: relation "idx_unq_rental_rental_date_inventory_id_customer_id" already exists
psql:Data/pagila-star.sql:81722: ERROR: trigger "film_fulltext_trigger" for relation "film" already exists
psql:Data/pagila-star.sql:81729: ERROR: trigger "last_updated" for relation "actor" already exists
psql:Data/pagila-star.sql:81736: ERROR: trigger "last_updated" for relation "address" already exists
psql:Data/pagila-star.sql:81743: ERROR: trigger "last_updated" for relation "category" already exists
psql:Data/pagila-star.sql:81750: ERROR: trigger "last_updated" for relation "city" already exists
psql:Data/pagila-star.sql:81757: ERROR: trigger "last_updated" for relation "country" already exists
psql:Data/pagila-star.sql:81764: ERROR: trigger "last_updated" for relation "customer" already exists
psql:Data/pagila-star.sql:81771: ERROR: trigger "last_updated" for relation "film" already exists
psql:Data/pagila-star.sql:81778: ERROR: trigger "last_updated" for relation "film_actor" already exists
psql:Data/pagila-star.sql:81785: ERROR: trigger "last_updated" for relation "film_category" already exists
psql:Data/pagila-star.sql:81792: ERROR: trigger "last_updated" for relation "inventory" already exists
psql:Data/pagila-star.sql:81799: ERROR: trigger "last_updated" for relation "language" already exists
psql:Data/pagila-star.sql:81806: ERROR: trigger "last_updated" for relation "rental" already exists
psql:Data/pagila-star.sql:81813: ERROR: trigger "last_updated" for relation "staff" already exists
psql:Data/pagila-star.sql:81820: ERROR: trigger "last_updated" for relation "store" already exists
psql:Data/pagila-star.sql:81828: ERROR: constraint "address_city_id_fkey" for relation "address" already exists
psql:Data/pagila-star.sql:81836: ERROR: constraint "city_country_id_fkey" for relation "city" already exists
psql:Data/pagila-star.sql:81844: ERROR: constraint "customer_address_id_fkey" for relation "customer" already exists
psql:Data/pagila-star.sql:81852: ERROR: constraint "customer_store_id_fkey" for relation "customer" already exists

```

```

psql:Data/pagila-star.sql:81860: ERROR:  constraint "factsales_customer_key_fkey" for relation "fact
psql:Data/pagila-star.sql:81868: ERROR:  constraint "factsales_date_key_fkey" for relation "fact
psql:Data/pagila-star.sql:81876: ERROR:  constraint "factsales_movie_key_fkey" for relation "fact
psql:Data/pagila-star.sql:81884: ERROR:  constraint "factsales_store_key_fkey" for relation "fact
psql:Data/pagila-star.sql:81892: ERROR:  constraint "film_actor_actor_id_fkey" for relation "film
psql:Data/pagila-star.sql:81900: ERROR:  constraint "film_actor_film_id_fkey" for relation "film
psql:Data/pagila-star.sql:81908: ERROR:  constraint "film_category_category_id_fkey" for relatio
psql:Data/pagila-star.sql:81916: ERROR:  constraint "film_category_film_id_fkey" for relation "f
psql:Data/pagila-star.sql:81924: ERROR:  constraint "film_language_id_fkey" for relation "film"
psql:Data/pagila-star.sql:81932: ERROR:  constraint "film_original_language_id_fkey" for relatio
psql:Data/pagila-star.sql:81940: ERROR:  constraint "inventory_film_id_fkey" for relation "inven
psql:Data/pagila-star.sql:81948: ERROR:  constraint "inventory_store_id_fkey" for relation "inve
psql:Data/pagila-star.sql:81956: ERROR:  constraint "payment_customer_id_fkey" for relation "pay
psql:Data/pagila-star.sql:81964: ERROR:  constraint "payment_rental_id_fkey" for relation "payme
psql:Data/pagila-star.sql:81972: ERROR:  constraint "payment_staff_id_fkey" for relation "paymen
psql:Data/pagila-star.sql:81980: ERROR:  constraint "rental_customer_id_fkey" for relation "rent
psql:Data/pagila-star.sql:81988: ERROR:  constraint "rental_inventory_id_fkey" for relation "ren
psql:Data/pagila-star.sql:81996: ERROR:  constraint "rental_staff_id_fkey" for relation "rental"
psql:Data/pagila-star.sql:82004: ERROR:  constraint "staff_address_id_fkey" for relation "staff"
psql:Data/pagila-star.sql:82012: ERROR:  constraint "staff_store_id_fkey" for relation "staff" a
psql:Data/pagila-star.sql:82020: ERROR:  constraint "store_address_id_fkey" for relation "store"

```

1.0.1 Connect to the local database where Pagila is loaded

```

In [7]: import sql
        %load_ext sql

        DB_ENDPOINT = "127.0.0.1"
        DB = 'pagila_star'
        DB_USER = 'student'
        DB_PASSWORD = 'student'
        DB_PORT = '5432'

        # postgresql://username:password@host:port/database
        conn_string = "postgresql://{user}:{password}@{host}:{port}/{database}" \
            .format(DB_USER, DB_PASSWORD, DB_ENDPOINT, DB_PORT, DB)

        print(conn_string)
        %sql $conn_string

```

The sql extension is already loaded. To reload it, use:

```

%reload_ext sql
postgresql://student:student@127.0.0.1:5432/pagila_star

```

```

Out[7]: 'Connected: student@pagila_star'

```

1.0.2 Star Schema

2 Start with a simple cube

TODO: Write a query that calculates the revenue (sales_amount) by day, rating, and city. Remember to join with the appropriate dimension tables to replace the keys with the dimension labels. Sort by revenue in descending order and limit to the first 20 rows. The first few rows of your output should match the table below.

```
In [8]: %%time
        %%sql
```

```
SELECT day, rating, city, SUM(sales_amount) AS revenue
FROM factsales
JOIN dimdate ON (factsales.date_key=dimdate.date_key)
JOIN dimmovie ON (factsales.movie_key=dimmovie.movie_key)
JOIN dimCustomer ON (dimCustomer.customer_key = factSales.customer_key)
GROUP BY day, rating, city
ORDER BY revenue DESC
LIMIT 20
```

```
* postgresql://student:***@127.0.0.1:5432/pagila_star
20 rows affected.
CPU times: user 4.23 ms, sys: 677 µs, total: 4.91 ms
Wall time: 36.6 ms
```

```
Out[8]: [(30, 'G', 'San Bernardino', Decimal('24.97')),
(30, 'NC-17', 'Apeldoorn', Decimal('23.95')),
(21, 'NC-17', 'Belm', Decimal('22.97')),
(28, 'R', 'Mwanza', Decimal('21.97')),
(21, 'G', 'Citt del Vaticano', Decimal('21.97')),
(30, 'PG-13', 'Zanzibar', Decimal('21.97')),
(1, 'R', 'Qomsheh', Decimal('19.97')),
(22, 'R', 'Yangor', Decimal('19.97')),
(28, 'PG-13', 'Dhaka', Decimal('19.97')),
(17, 'G', 'Rajkot', Decimal('19.97')),
(19, 'PG', 'Najafabad', Decimal('19.96')),
(30, 'R', 'Fengshan', Decimal('19.95')),
(28, 'PG', 'So Leopoldo', Decimal('18.98')),
(21, 'G', 'Wroclaw', Decimal('18.98')),
(1, 'NC-17', 'Memphis', Decimal('18.97')),
(30, 'PG-13', 'Osmaniye', Decimal('18.97')),
(29, 'PG-13', 'Shimoga', Decimal('18.97')),
(19, 'PG', 'Sokoto', Decimal('18.97')),
(30, 'G', 'Omdurman', Decimal('18.97')),
(21, 'PG-13', 'Asuncin', Decimal('18.95'))]
```

```
<tbody><tr>
```



```

        <th>day</th>
        <th>rating</th>
        <th>city</th>
        <th>revenue</th>
</tr>
<tr>
    <td>30</td>
    <td>G</td>
    <td>San Bernardino</td>
    <td>24.97</td>
</tr>
<tr>
    <td>30</td>
    <td>NC-17</td>
    <td>Apeldoorn</td>
    <td>23.95</td>
</tr>
<tr>
    <td>21</td>
    <td>NC-17</td>
    <td>Belm</td>
    <td>22.97</td>
</tr>
<tr>
    <td>30</td>
    <td>PG-13</td>
    <td>Zanzibar</td>
    <td>21.97</td>
</tr>
<tr>
    <td>28</td>
    <td>R</td>
    <td>Mwanza</td>
    <td>21.97</td>
</tr>

```

2.1 Slicing

Slicing is the reduction of the dimensionality of a cube by 1 e.g. 3 dimensions to 2, fixing one of the dimensions to a single value. In the example above, we have a 3-dimensional cube on day, rating, and country.

TODO: Write a query that reduces the dimensionality of the above example by limiting the results to only include movies with a rating of "PG-13". Again, sort by revenue in descending order and limit to the first 20 rows. The first few rows of your output should match the table below.

```

In [12]: %%time
         %%sql

```

```

SELECT dimdate.day, dimmovie.rating, dimcustomer.city, SUM(factsales.sales_amount) AS r
FROM factsales
JOIN dimdate ON (factsales.date_key=dimdate.date_key)
JOIN dimmovie ON (factsales.movie_key=dimmovie.movie_key)
JOIN dimcustomer ON (factsales.customer_key=dimcustomer.customer_key)
WHERE dimmovie.rating='PG-13'
GROUP BY dimdate.day, dimmovie.rating, dimcustomer.city
ORDER BY revenue DESC

```

```

* postgresql://student:***@127.0.0.1:5432/pagila_star
3107 rows affected.
CPU times: user 10.4 ms, sys: 0 ns, total: 10.4 ms
Wall time: 22.5 ms

```

```

Out[12]: [(30, 'PG-13', 'Zanzibar', Decimal('21.97')),
(28, 'PG-13', 'Dhaka', Decimal('19.97')),
(29, 'PG-13', 'Shimoga', Decimal('18.97')),
(30, 'PG-13', 'Osmaniye', Decimal('18.97')),
(21, 'PG-13', 'Asuncin', Decimal('18.95')),
(20, 'PG-13', 'Baha Blanca', Decimal('17.98')),
(30, 'PG-13', 'Nagareyama', Decimal('17.98')),
(21, 'PG-13', 'Parbhani', Decimal('17.98')),
(30, 'PG-13', 'Tanauan', Decimal('17.96')),
(17, 'PG-13', 'Ikerre', Decimal('17.95')),
(30, 'PG-13', 'Zhoushan', Decimal('16.98')),
(30, 'PG-13', 'Yerevan', Decimal('16.97')),
(30, 'PG-13', 'Newcastle', Decimal('16.97')),
(20, 'PG-13', 'Santa Rosa', Decimal('15.98')),
(30, 'PG-13', 'Santa Rosa', Decimal('15.98')),
(17, 'PG-13', 'Yantai', Decimal('15.98')),
(8, 'PG-13', 'Pontianak', Decimal('15.98')),
(20, 'PG-13', 'Johannesburg', Decimal('15.97')),
(30, 'PG-13', 'Toulouse', Decimal('15.97')),
(23, 'PG-13', 'Tiefen', Decimal('15.97')),
(10, 'PG-13', 'Udaipur', Decimal('15.97')),
(1, 'PG-13', 'Moscow', Decimal('15.97')),
(19, 'PG-13', 'Owo', Decimal('14.98')),
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2.2 Dicing

Dicing is creating a subcube with the same dimensionality but fewer values for two or more dimensions.

TODO: Write a query to create a subcube of the initial cube that includes moves with: * ratings of PG or PG-13 * in the city of Bellevue or Lancaster * day equal to 1, 15, or 30

The first few rows of your output should match the table below.

```
In [14]: %%time
        %%sql
```

```
SELECT dimdate.day, dimmovie.rating, dimcustomer.city, SUM(factsales.sales_amount) AS revenue
FROM factsales
JOIN dimdate ON (factsales.date_key=dimdate.date_key)
JOIN dimmovie ON (factsales.movie_key=dimmovie.movie_key)
JOIN dimcustomer ON (factsales.customer_key=dimcustomer.customer_key)
WHERE dimmovie.rating IN('PG-13','PG')
AND dimcustomer.city IN ('Bellevue','Lancaster')
AND dimdate.day IN (1, 15, 30)
GROUP BY dimdate.day, dimmovie.rating, dimcustomer.city
ORDER BY revenue DESC
```

```
* postgresql://student:***@127.0.0.1:5432/pagila_star
6 rows affected.
CPU times: user 2.35 ms, sys: 3.31 ms, total: 5.66 ms
Wall time: 10.1 ms
```

```
Out[14]: [(30, 'PG', 'Lancaster', Decimal('12.98')),
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          (1, 'PG', 'Bellevue', Decimal('0.99'))]
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