

The information of the data can be found [here](#).

Questions:

1. How many events happened in each city?
2. Who are the best sellers for events in New York City in 2008?
3. What are the best-selling venues based on tickets sold?
4. What are the highest-grossing events?
5. What are the lowest selling type of events?

1. How many events happened in each city?

Integration  Ticket Sales ▾

Available as **df**

 Browse tables

```
SELECT venuecity, COUNT(eventid) AS event FROM venue
JOIN event ON venue.venueid=event.venueid
GROUP BY venuecity ORDER BY event DESC
```

[2]

 Collapse

Rows per page **10** ▾ 79 rows 

	venuecity ▾	event ▾
0	New York City	2647
1	Los Angeles	312
2	Las Vegas	300
3	Chicago	209
4	San Francisco	194
5	Washington	164
6	Houston	155
7	Detroit	152
8	Boston	144
9	Baltimore	142

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Rows per page **10** ▾ 79 rows 

2. Who are the best sellers for events in New York City in 2008?

Integration  Ticket Sales ▾

Available as **df**

 Browse tables

```
WITH event_venue AS (SELECT venuecity, eventid FROM venue
JOIN event ON venue.venueid=event.venueid)
```

[3]

```
SELECT sellerid, (firstname||' '||lastname) AS name, SUM(qtysold) AS Sold FROM sales
INNER JOIN users ON users.userid=sales.sellerid
INNER JOIN date ON sales.dateid=date.dateid
INNER JOIN event_venue ON sales.eventid=event_venue.eventid
WHERE year=2008 AND venuecity='New York City'
GROUP BY 1,2
ORDER BY sold DESC
```

 Collapse

Rows per page **10** ▾ 22944 rows (truncated to 6666) 

	sellerid ▾	name ▾	sold ▾
0	43237	Logan David	27
1	24786	Summer Marsh	25
2	26419	Patricia Espinoza	25

3	39548	Clementine Randolph	25
4	8084	Elliott Kennedy	24
5	44863	Reagan Estes	24
6	38014	Joshua Ferrell	24
7	5894	Noel Orr	23
8	19146	Scott Ingram	23
9	2067	Cally Rowland	23

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 Rows per page 10 22944 rows (truncated to 6666)

3. What are the best-selling venues based on tickets sold?

Integration	Ticket Sales	Available as	df	Browse tables
<div> <div>WITH event_qty AS (SELECT sales.eventid, venueid, SUM(qtysold) AS qtysold FROM sales JOIN event ON sales.eventid=event.eventid GROUP BY 1,2)</div> <div> <div>SELECT venueid, venueid, SUM(qtysold) AS tickets_sold FROM venue JOIN event_qty ON venue.venueid=event_qty.venueid GROUP BY 1,2 ORDER BY tickets_sold DESC</div> <div>[4]</div> </div> </div>				
<div> <div> <div>×</div> <div>Collapse</div> </div> <div> <div>Rows per page</div> <div>10</div> <div>201 rows</div> <div>↓</div> </div> </div>				
	venueid	venueid	tickets_sold	
0	Lunt-Fontanne Theatre	New York City	3326	
1	August Wilson Theatre	New York City	3187	
2	Hilton Theatre	New York City	2999	
3	Helen Hayes Theatre	New York City	2948	
4	Nederlander Theatre	New York City	2934	
5	Winter Garden Theatre	New York City	2838	
6	Ethel Barrymore Theatre	New York City	2828	
7	Pasadena Playhouse	Pasadena	2739	
8	Imperial Theatre	New York City	2702	
9	Biltmore Theatre	New York City	2629	
<div> <div> <div>×</div> <div>Collapse</div> </div> <div> <div>Rows per page</div> <div>10</div> <div>201 rows</div> <div>↓</div> </div> </div>				

4. What are the highest-grossing events?

Integration	Ticket Sales	Available as	df	Browse tables
<div> <div>SELECT eventname, SUM(pricepaid) AS sales FROM sales JOIN event ON sales.eventid=event.eventid GROUP BY 1 ORDER BY sales DESC</div> <div>[5]</div> </div>				
<div> <div> <div>×</div> <div>Collapse</div> </div> <div> <div>Rows per page</div> <div>10</div> <div>576 rows</div> <div>↓</div> </div> </div>				
	eventname	sales		
0	Mamma Mia!	1135454		
1	Spring Awakening	972855		
2	The Country Girl	910563		
3	Macbeth	862580		

4	Jersey Boys	811877
5	Legally Blonde	804583
6	Chicago	790993
7	Spamalot	714307
8	Hedda Gabler	661018
9	Thurgood	639877

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 Rows per page 10 576 rows [↓](#)

5. What are the lowest selling type of events?

Integration  Ticket Sales ▼

Available as dfevent

 [Browse tables](#)

```
WITH event_qty AS(SELECT catid, SUM(qtysold) AS tickets_sold FROM event
JOIN sales ON event.eventid=sales.eventid GROUP BY 1)
```

[6]

```
SELECT catname AS type_of_events, tickets_sold FROM category
JOIN event ON category.catid=event.catid
JOIN event_qty ON category.catid=event_qty.catid
GROUP BY 1,2
ORDER BY 2 ASC
```

× Collapse

4 rows [↓](#)

	type_of_events ▼	tickets_sold ▼
0	Opera	19787
1	Musicals	51573
2	Plays	78545
3	Pop	195444

4 rows [↓](#)

Visualize the table

```
import seaborn as sns
import matplotlib.pyplot as plt
fig,ax=plt.subplots()
fig.set_size_inches(20,8)
sns.set(font_scale=1)

sns.barplot(x='type_of_events', y='tickets_sold', data=dfevent, color='turquoise')
locs,labels=plt.xticks()
plt.setp(labels,fontsize=20)
plt.show()
```

