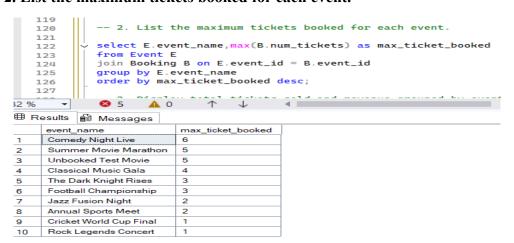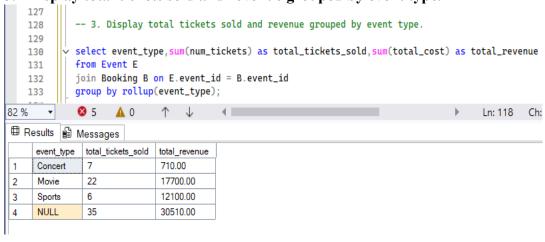# SQL CODING CHALLENGE

1.Find the total number of tickets booked and total revenue generated for each event.

```
111
112      -- 1. Find the total number of tickets booked and total revenue generated for each event
113
114    ∨ select E.event_name,sum(B.num_tickets) as total_tickets,sum(B.total_cost) as total_revenue
115      from Event E
116      join Booking B on E.event_id = B.event_id
117      group by E.event_name
118      order by total_revenue desc;
```

82 %   ⊗ 5   ⚠ 0   ↑ ↓   ◀   ▶   Ln: 108   Ch: 21   SF

⊞ Results 📄 Messages

	event_name	total_tickets	total_revenue
1	Unbooked Test Movie	5	7500.00
2	Football Championship	3	6000.00
3	Summer Movie Marathon	5	6000.00
4	Annual Sports Meet	2	3600.00
5	Comedy Night Live	6	3000.00
6	Cricket World Cup Final	1	2500.00
7	The Dark Knight Rises	6	1200.00
8	Classical Music Gala	4	400.00
9	Jazz Fusion Night	2	160.00
10	Rock Legends Concert	1	150.00

2. List the maximum tickets booked for each event.

```
119
120      -- 2. List the maximum tickets booked for each event.
121
122    ∨ select E.event_name,max(B.num_tickets) as max_ticket_booked
123      from Event E
124      join Booking B on E.event_id = B.event_id
125      group by E.event_name
126      order by max_ticket_booked desc;
127
```

82 %   ⊗ 5   ⚠ 0   ↑ ↓   ◀   ▬

⊞ Results 📄 Messages

	event_name	max_ticket_booked
1	Comedy Night Live	6
2	Summer Movie Marathon	5
3	Unbooked Test Movie	5
4	Classical Music Gala	4
5	The Dark Knight Rises	3
6	Football Championship	3
7	Jazz Fusion Night	2
8	Annual Sports Meet	2
9	Cricket World Cup Final	1
10	Rock Legends Concert	1

3. Display total tickets sold and revenue grouped by event type.

```
127
128      -- 3. Display total tickets sold and revenue grouped by event type.
129
130    ∨ select event_type,sum(num_tickets) as total_tickets_sold,sum(total_cost) as total_revenue
131      from Event E
132      join Booking B on E.event_id = B.event_id
133      group by rollup(event_type);
```

82 %   ⊗ 5   ⚠ 0   ↑ ↓   ◀   ▶   Ln: 118   Ch:

⊞ Results 📄 Messages

	event_type	total_tickets_sold	total_revenue
1	Concert	7	710.00
2	Movie	22	17700.00
3	Sports	6	12100.00
4	NULL	35	30510.00

4. For each event type, get the average ticket price and total number of events conducted.

```
134
135    -- 4. For each event type, get the average ticket price and total number of events conducted.
136
137  ⌄ select event_type,count(*) as no_of_events,avg(ticket_price) as avg_price
138    from Event
139    group by (event_type)
140    order by avg_price desc;
141
```

82 % ▾   ❌ 5   ⚠ 0   ↑ ↓   ◄ [_____]   ▶   Ln: 125   Ch: 22

⊞ Results   📄 Messages

	event_type	no_of_events	avg_price
1	Concert	4	1700.000000
2	Sports	3	1066.666666
3	Movie	5	156.000000

5. List venues and the number of distinct events hosted at each venue.

```
141
142    -- 5. List venues and the number of distinct events hosted at each venue.
143
144  ⌄ select V.venue_name,count(distinct E.event_id) as event_count
145    from Venue V
146    join Event E on V.venue_id = E.venue_id
147    group by V.venue_name
148    order by event_count desc;
```

82 % ▾   ❌ 5   ⚠ 0   ↑ ↓   ◄ [_____]   ▶

⊞ Results   📄 Messages

	venue_name	event_count
1	Grand Cinema	4
2	City Stadium	2
3	Concert Hall	2
4	Exhibition Center	1
5	Community Theater	1
6	Museum of Art	1
7	Science Center	1