Assignment Output: Ticket Booking System
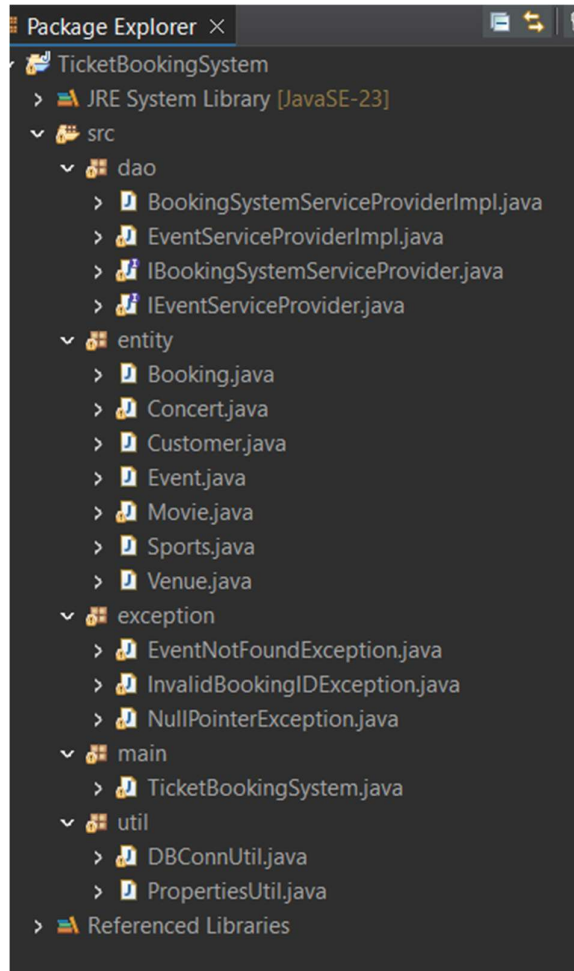
1. Directory Structure:

2. Database Schema:
   - Booking table:

booking | customer | event | venue

SELECT * FROM ticketbookingsystem.booking;

Result Grid | Filter Rows: | Edit: | Export/Impc

booking_id	customer_id	event_id	num_tickets	total_cost	booking_date
502	202	102	3	2550	2025-01-02
503	203	103	4	20000	2025-01-26
504	204	104	2	1600	2025-02-05
505	205	105	6	12000	2025-05-02
506	206	106	1	2000	2025-12-02
507	207	107	5	3000	2025-06-08
508	208	108	4	4000	2025-09-08
509	209	109	2	2000	2025-11-02
914	214	102	2	1700	2025-04-07
NULL	NULL	NULL	NULL	NULL	NULL

- Customer table:

- Event table:

event_id	event_name	event_date	event_time	venue_id	total_seats	available_seats	ticket_price	event_type
101	Coldplay: Music of the Spheres Tour	2025-04-18	18:00:00	2	1000	255	500	Concert
102	Bengaluru Open	2025-06-06	10:00:00	5	2000	1098	850	Sports
103	Ed Sheeran: Mathematics Tour	2025-12-25	17:00:00	1	5000	1000	5000	Concert
104	YJHD: Premiere	2025-09-26	18:00:00	6	300	50	800	Movie
105	Khelo India Winter Games	2025-11-02	10:00:00	10	1000	200	2000	Sports
106	Guns N Roses	2025-05-26	16:00:00	8	3000	1000	2000	Concert
107	3 Idiots	2025-06-20	17:00:00	7	300	50	600	Movie
108	ISSF Junior World	2025-03-31	11:00:00	4	1000	200	1000	Sports
109	Lord of the Rings	2025-08-25	19:00:00	3	500	50	1000	Movie
110	21 Savage	2025-10-13	17:00:00	3	4000	1003	2000	Concert
111	World Cup	2025-12-25	17:00:00	1	5000	1000	5000	Sports

- Venue table:

3. Output of mentioned methods:
   (a) Create event:

```
***** TICKET BOOKING SYSTEM *****
1. Create Event
2. Get Event Details by Name
3. Get Available Tickets
4. Calculate Booking Cost
5. Book Tickets
6. Cancel Booking
7. Get Booking Details
8. Exit
Enter your choice: 1
Enter Event Name: The Devil Wears Prada
Enter Event Date (YYYY-MM-DD): 2025-04-15
Enter Event Time (HH:MM): 17:00
Enter Venue ID: 6
Enter Total Seats: 300
Enter Available Seats: 100
Enter Ticket Price: 500
Enter Event Type (concert/movie/sports): movie
Rows inserted: 1
Event created successfully!
```

```
1 •   SELECT * FROM ticketbookingsystem.event;
```

event_id	event_name	event_date	event_time	venue_id	total_seats	available_seats	ticket_price	event_type
102	Bengaluru Open	2025-06-06	10:00:00	5	2000	1098	850	Sports
103	Ed Sheeran: Mathematics Tour	2025-12-25	17:00:00	1	5000	1000	5000	Concert
104	YJHD: Premiere	2025-09-26	18:00:00	6	300	50	800	Movie
105	Khelo India Winter Games	2025-11-02	10:00:00	10	1000	200	2000	Sports
106	Guns N Roses	2025-05-26	16:00:00	8	3000	1000	2000	Concert
107	3 Idiots	2025-06-20	17:00:00	7	300	50	600	Movie
108	ISSF Junior World	2025-03-31	11:00:00	4	1000	200	1000	Sports
109	Lord of the Rings	2025-08-25	19:00:00	3	500	50	1000	Movie
110	21 Savage	2025-10-13	17:00:00	3	4000	1003	2000	Concert
111	World Cup	2025-12-25	17:00:00	1	5000	1000	5000	Sports
115	concert a	2025-07-06	18:00:00	2	5000	2000	5000	Concert
119	abc	2025-08-04	18:00:00	5	200	500	200	Movie
120	The Devil Wears Prada	2025-04-15	17:00:00	6	300	100	500	Movie

(b) Get event details:

```
Problems @ Javadoc  Declaration  Console ×
TicketBookingSystem [Java Application] C:\Users\Mruganka\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_23.0.2.v20250131-0604\jre\bin\javaw.exe (10 Apr 2025, 12:16:10 am elapsed: 0:00:19) [pid: 19284]


***** TICKET BOOKING SYSTEM *****
1. Create Event
2. Get Event Details by Name
3. Get Available Tickets
4. Calculate Booking Cost
5. Book Tickets
6. Cancel Booking
7. Get Booking Details
8. Exit
Enter your choice: 2
Enter Event Name to search: Devil Wears Prada
No events found with the given name.

***** TICKET BOOKING SYSTEM *****
1. Create Event
2. Get Event Details by Name
3. Get Available Tickets
4. Calculate Booking Cost
5. Book Tickets
6. Cancel Booking
7. Get Booking Details
8. Exit
Enter your choice: 2
Enter Event Name to search: The Devil wears Prada
Event ID: 120 | Name: The Devil Wears Prada | Date: 2025-04-15 | Time: 17:00 | Venue ID: 6 | Total Seats: 300 | Available Seats: 100 | Ticket Price: 500.0 | Type: Movie
```

(c) Get available tickets:

```
Problems  @ Javadoc  Declaration  Console ×
TicketBookingSystem [Java Application] C:\Users\Mruganka\.p2\pool\plugins\org.eclipse.justj.op


***** TICKET BOOKING SYSTEM *****
1. Create Event
2. Get Event Details by Name
3. Get Available Tickets
4. Calculate Booking Cost
5. Book Tickets
6. Cancel Booking
7. Get Booking Details
8. Exit
Enter your choice: 3
Enter Event Name: The Devil Wears Prada
Event ID: 120 | Name: The Devil Wears Prada | Available Tickets: 100
```

(d) Calculate booking cost:

```
***** TICKET BOOKING SYSTEM *****
1. Create Event
2. Get Event Details by Name
3. Get Available Tickets
4. Calculate Booking Cost
5. Book Tickets
6. Cancel Booking
7. Get Booking Details
8. Exit
Enter your choice: 4
Enter Event Name: The devil wears prada
Enter Number of Tickets: 2
Total cost for booking 2 tickets: ₹1000
```

(e) Book tickets:

```
***** TICKET BOOKING SYSTEM *****
1. Create Event
2. Get Event Details by Name
3. Get Available Tickets
4. Calculate Booking Cost
5. Book Tickets
6. Cancel Booking
7. Get Booking Details
8. Exit
Enter your choice: 5
Enter Event Name: The devil wears prada
Enter Number of Tickets: 2
Enter Booking Date (YYYY-MM-DD): 2025-04-09
Enter Customer Name: Mruganka
Enter Email: chip@gmail.com
Enter Phone Number: 5632104789
Tickets booked successfully!
```

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`1 ●`   `SELECT * FROM ticketbookingsystem.booking;`

Execute the statement under the keyboard cursor

Result Grid | 🔲   ↔ Filter Rows: [_____]   Edit: ✏️ 🗄 🗄 | Export/Import: 🗄

booking_id	customer_id	event_id	num_tickets	total_cost	booking_date
502	202	102	3	2550	2025-01-02
503	203	103	4	20000	2025-01-26
504	204	104	2	1600	2025-02-05
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506	206	106	1	2000	2025-12-02
507	207	107	5	3000	2025-06-08
508	208	108	4	4000	2025-09-08
509	209	109	2	2000	2025-11-02
914	214	102	2	1700	2025-04-07
918	220	120	2	1000	2025-04-09
NULL	NULL	NULL	NULL	NULL	NULL
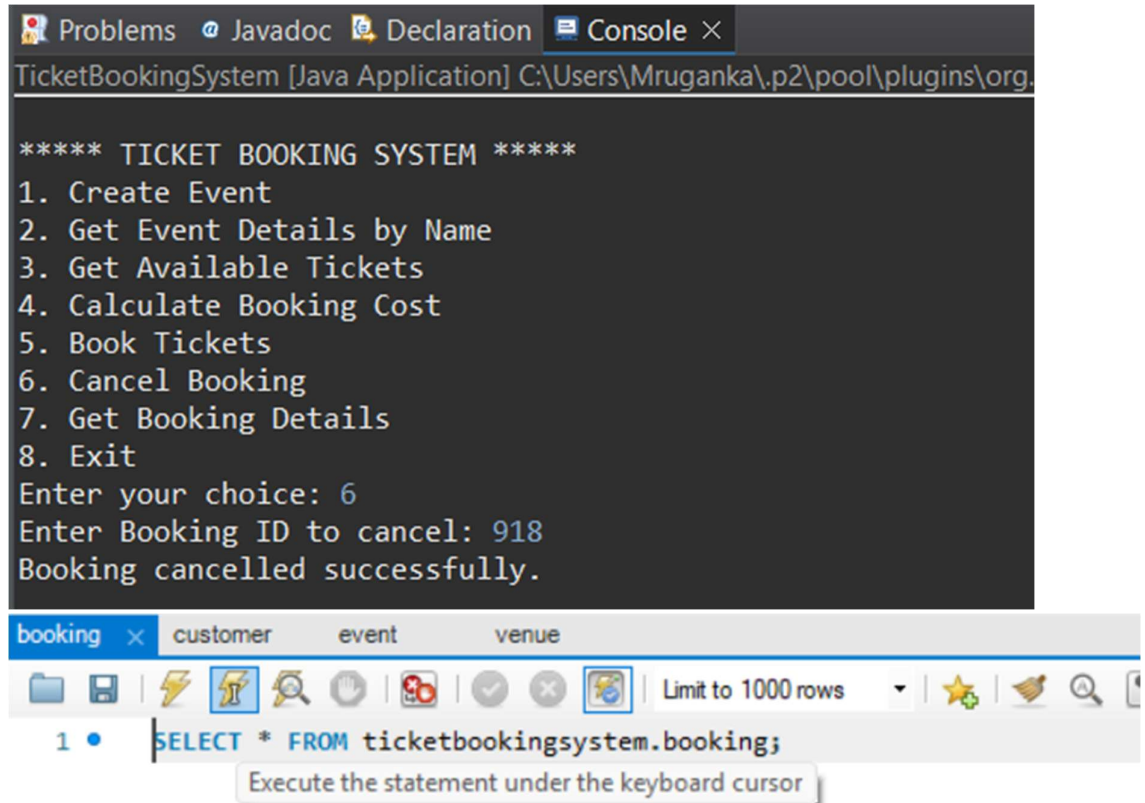
📁 💾 | ⚡ 🔩 🔍 ⏱ | 🔳 | ✅ ❌ | 🔲   Limit to 1000 rows   ▼ | ⭐ | 🧹 🔍

`1 ●`   `SELECT * FROM ticketbookingsystem.customer;`

Result Grid | 🔲   ↔ Filter Rows: [_____]   Edit: ✏️ 🗄 🗄 | Export/Import: 🗄

customer_id	customer_name	email	phone_number
204	Rutuja	rutuja@gmail.com	9531247866
205	Sunny	sunny@gmail.com	8745963215
206	Vaishnavi	vaishnavi@gmail.com	8796321455
207	Atharva	atharva@gmail.com	9863214789
208	Isha	isha@gmail.com	9874563215
209	Yash	yash@gmail.com	8963214578
210	Shravani	shravani@gmail.com	9863257412
211	Rahul	rahul@gmail.com	8632157000
214	mru	mru@gmail.com	0162626336
216	abc	abc@gmail.com	1515656156
218	pqr	pqr@gmail.com	9874563210
219	xyz	xyz@gmail.com	987463210
220	Mruganka	chip@gmail.com	5632104789
NULL	NULL	NULL	NULL

(f) Cancel booking:


```
Problems  @ Javadoc  Declaration  Console ×
TicketBookingSystem [Java Application] C:\Users\Mruganka\.p2\pool\plugins\org.

***** TICKET BOOKING SYSTEM *****
1. Create Event
2. Get Event Details by Name
3. Get Available Tickets
4. Calculate Booking Cost
5. Book Tickets
6. Cancel Booking
7. Get Booking Details
8. Exit
Enter your choice: 6
Enter Booking ID to cancel: 918
Booking cancelled successfully.
```
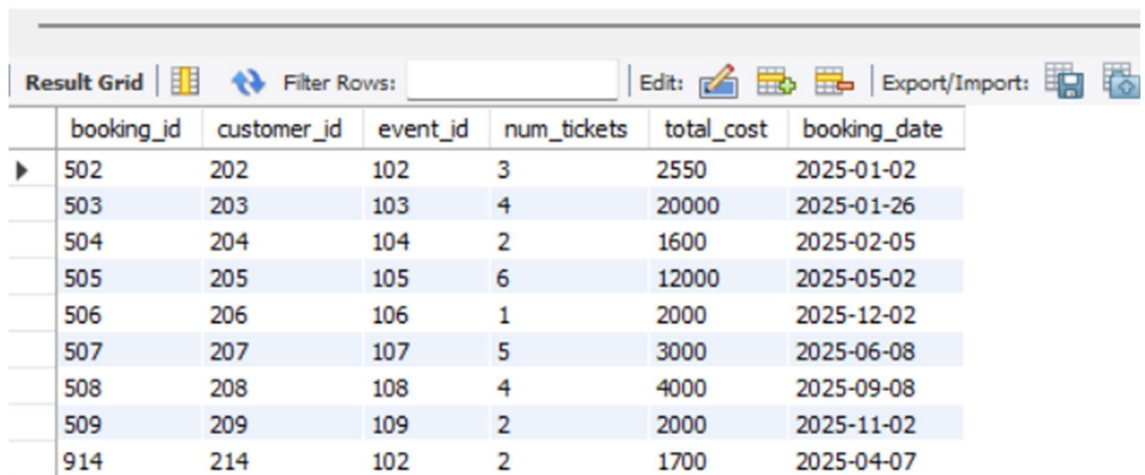
booking ×   customer   event   venue

`SELECT * FROM ticketbookingsystem.booking;`

Execute the statement under the keyboard cursor

booking_id	customer_id	event_id	num_tickets	total_cost	booking_date
502	202	102	3	2550	2025-01-02
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507	207	107	5	3000	2025-06-08
508	208	108	4	4000	2025-09-08
509	209	109	2	2000	2025-11-02
914	214	102	2	1700	2025-04-07

(g) Get booking details:

```
***** TICKET BOOKING SYSTEM *****
1. Create Event
2. Get Event Details by Name
3. Get Available Tickets
4. Calculate Booking Cost
5. Book Tickets
6. Cancel Booking
7. Get Booking Details
8. Exit
Enter your choice: 7
Enter Booking ID: 508
Booking ID: 508
Customer Name: Isha
Event Name: ISSF Junior World
Number of Tickets: 4
Booking Date: 2025-09-08
```