Report: Database Schema Definition SQL Queries

TABLE: COLLEGES

CREATE TABLE colleges (

id SERIAL PRIMARY KEY,

name VARCHAR(100) NOT NULL UNIQUE

);

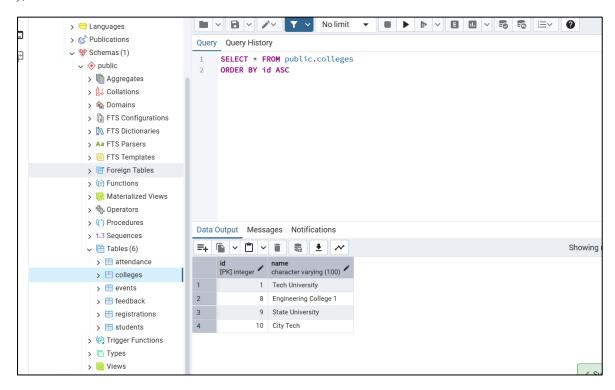


Fig.1: Table colleges

```
TABLE: STUDENTS

CREATE TABLE students (
  id SERIAL PRIMARY KEY,
  name VARCHAR(100) NOT NULL,
  college_id INTEGER NOT NULL,

FOREIGN KEY (college_id) REFERENCES colleges(id) ON DELETE CASCADE
);
```

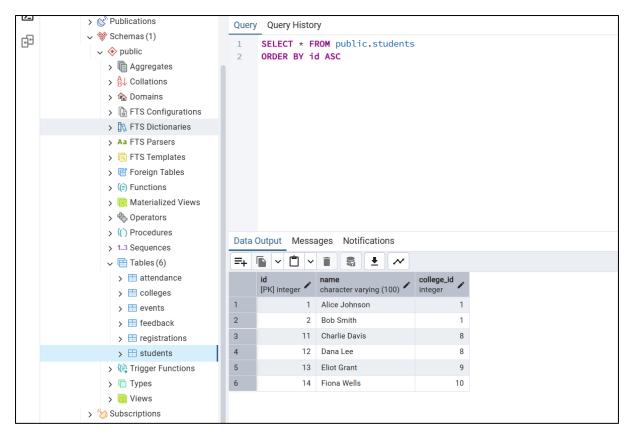


Fig.2: Table students

```
TABLE: EVENTS

CREATE TABLE events (
  id SERIAL PRIMARY KEY,
  name VARCHAR(100) NOT NULL,
  type VARCHAR(50) NOT NULL,
  date DATE NOT NULL,
  college_id INTEGER NOT NULL,
  FOREIGN KEY (college_id) REFERENCES colleges(id) ON DELETE CASCADE
);
```

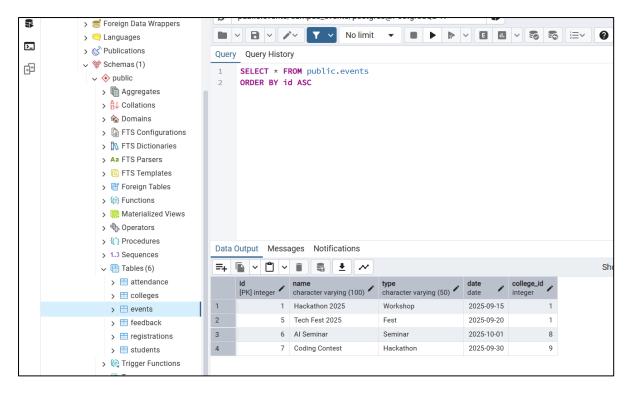


Fig.3: Table events

```
TABLE: REGISTRATIONS

CREATE TABLE registrations (
    id SERIAL PRIMARY KEY,
    student_id INTEGER NOT NULL,
    event_id INTEGER NOT NULL,
    UNIQUE(student_id, event_id),
    FOREIGN KEY (student_id) REFERENCES students(id) ON DELETE CASCADE,
    FOREIGN KEY (event_id) REFERENCES events(id) ON DELETE CASCADE
);
```

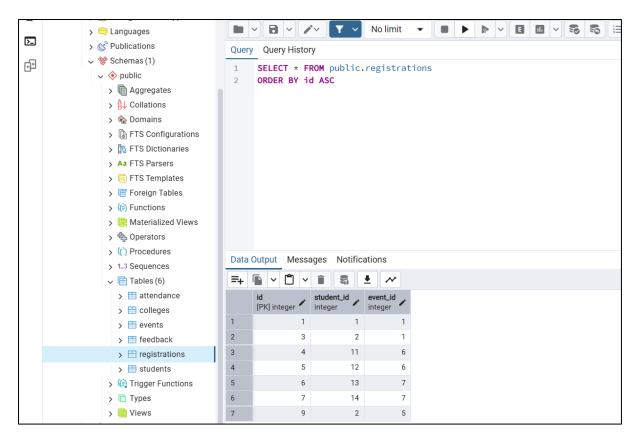


Fig.4: Table registrations

```
TABLE: ATTENDANCE

CREATE TABLE attendance (
    id SERIAL PRIMARY KEY,
    student_id INTEGER NOT NULL,
    event_id INTEGER NOT NULL,
    status BOOLEAN NOT NULL,

UNIQUE(student_id, event_id),

FOREIGN KEY (student_id) REFERENCES students(id) ON DELETE CASCADE,
FOREIGN KEY (event_id) REFERENCES events(id) ON DELETE CASCADE
);
```

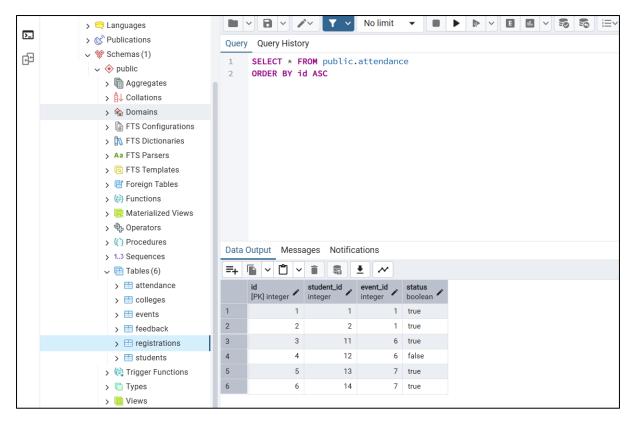


Fig.5: Table attendance

```
TABLE: FEEDBACK

CREATE TABLE feedback (

id SERIAL PRIMARY KEY,

student_id INTEGER NOT NULL,

event_id INTEGER NOT NULL,

rating INTEGER NOT NULL CHECK (rating BETWEEN 1 AND 5),

UNIQUE(student_id, event_id),

FOREIGN KEY (student_id) REFERENCES students(id) ON DELETE CASCADE,

FOREIGN KEY (event_id) REFERENCES events(id) ON DELETE CASCADE

);
```

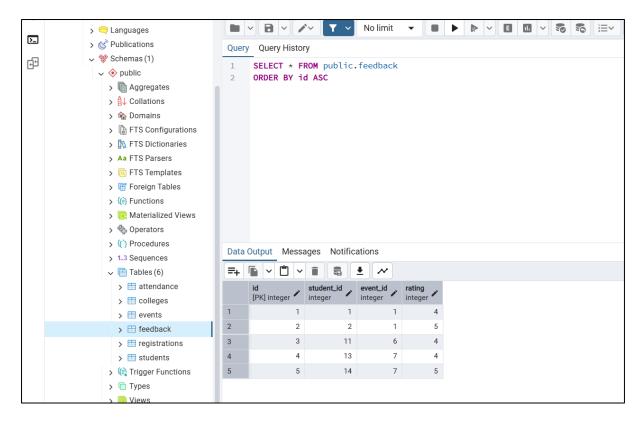
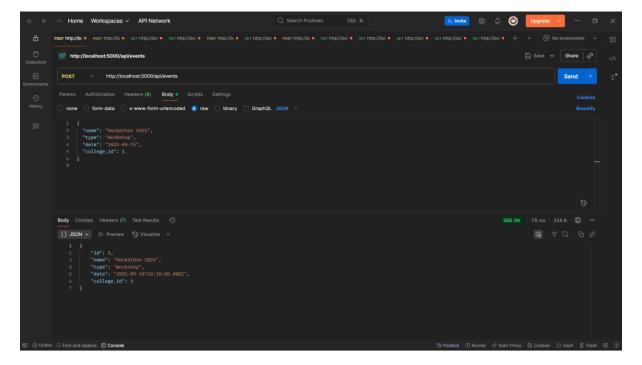
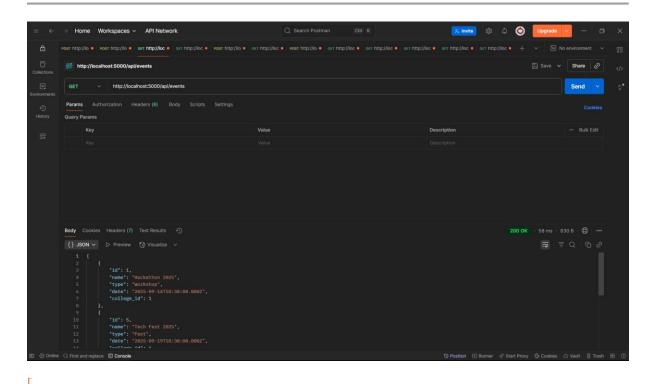


Fig.6: Table feedback

I have used **POSTMAN** for my API endpoints testing, below are the screenshots of the Requests and Responses. I have included the API calls in the design document, I'll be including the JSON responses under each image respectively.



```
{
  "id": 1,
  "name": "Hackathon 2025",
  "type": "Workshop",
  "date": "2025-09-14T18:30:00.000Z",
  "college_id": 1
}
```



```
{
  "id": 1,
  "name": "Hackathon 2025",
  "type": "Workshop",
  "date": "2025-09-14T18:30:00.000Z",
  "college_id": 1
},
{
  "id": 5,
  "name": "Tech Fest 2025",
  "type": "Fest",
```

```
"date": "2025-09-19T18:30:00.000Z",

"college_id": 1
},

{

"id": 6,

"name": "AI Seminar",

"type": "Seminar",

"date": "2025-09-30T18:30:00.000Z",

"college_id": 8
},

{

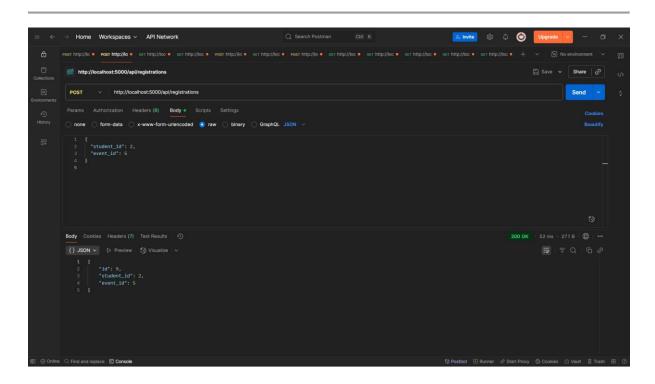
"id": 7,

"name": "Coding Contest",

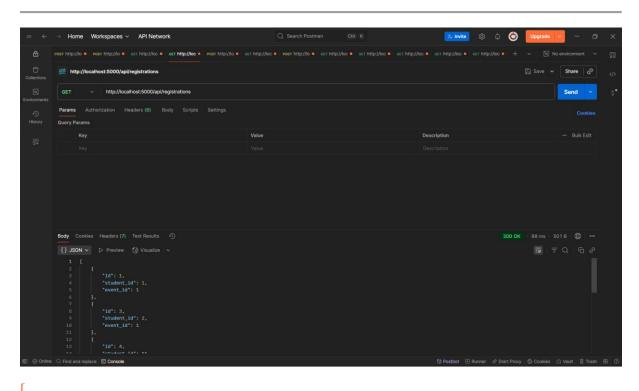
"type": "Hackathon",

"date": "2025-09-29T18:30:00.000Z",

"college_id": 9
}
```



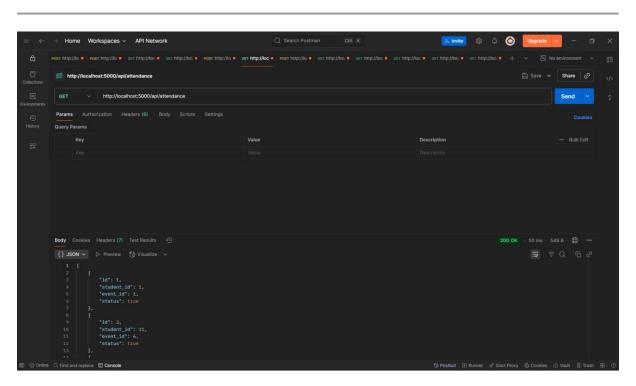
```
{
   "id": 9,
   "student_id": 2,
   "event_id": 5
}
```



```
{
    "id": 1,
    "student_id": 1,
    "event_id": 1
},
{
    "id": 3,
    "student_id": 2,
    "event_id": 1
},
{
    "id": 4,
    "student_id": 11,
```

```
"event_id": 6
  },
    "id": 5,
    "student_id": 12,
    "event_id": 6
  },
    "id": 6,
    "student_id": 13,
    "event_id": 7
  },
    "id": 7,
    "student_id": 14,
    "event_id": 7
  },
    "id": 9,
    "student_id": 2,
    "event_id": 5
 }
]
```

```
The control Workspaces — AP Northern On the Property of the Internation — Control North Manufacture — Control Nort
```



```
"id": 1,
  "student_id": 1,
  "event_id": 1,
  "status": true
},
  "id": 3,
  "student_id": 11,
  "event_id": 6,
  "status": true
},
  "id": 4,
  "student_id": 12,
  "event_id": 6,
  "status": false
},
  "id": 5,
  "student_id": 13,
  "event_id": 7,
  "status": true
},
  "id": 6,
  "student_id": 14,
  "event_id": 7,
  "status": true
},
  "id": 2,
```

```
## Comparison of the particular of the particula
```

```
| Note |
```

```
{
    "id": 1,
    "student_id": 1,
    "event_id": 1,
    "rating": 4
},
{
    "id": 3,
    "student_id": 11,
    "event_id": 6,
    "rating": 4
},
{
    "id": 4,
    "student_id": 13,
    "event_id": 7,
    "rating": 4
},
{
```

```
"id": 5,

"student_id": 14,

"event_id": 7,

"rating": 5

},

{

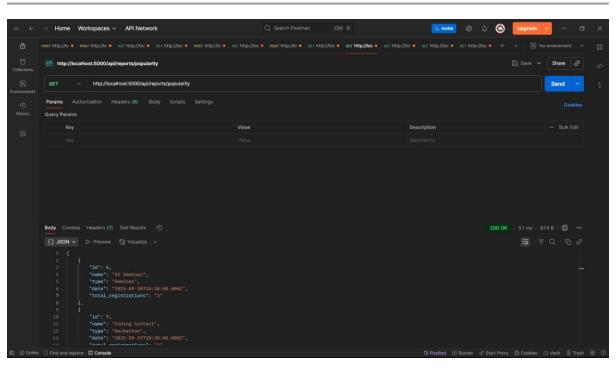
"id": 2,

"student_id": 2,

"event_id": 1,

"rating": 5

}
```

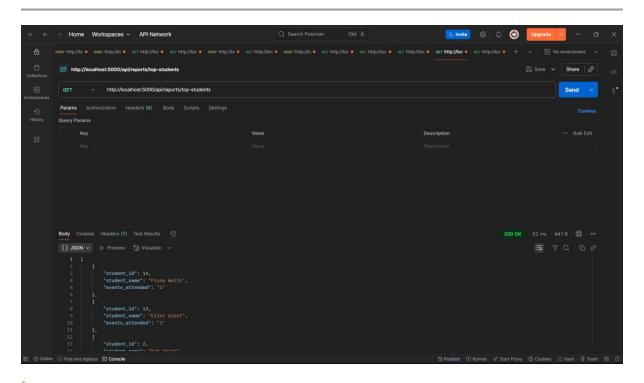


```
[
    "id": 6,
    "name": "AI Seminar",
    "type": "Seminar",
    "date": "2025-09-30T18:30:00.000Z",
    "total_registrations": "2"
```

```
},
  "id": 7,
  "name": "Coding Contest",
  "type": "Hackathon",
  "date": "2025-09-29T18:30:00.000Z",
  "total_registrations": "2"
},
  "id": 1,
  "name": "Hackathon 2025",
  "type": "Workshop",
  "date": "2025-09-14T18:30:00.000Z",
  "total_registrations": "2"
},
  "id": 5,
  "name": "Tech Fest 2025",
  "type": "Fest",
  "date": "2025-09-19T18:30:00.000Z",
  "total_registrations": "1"
```

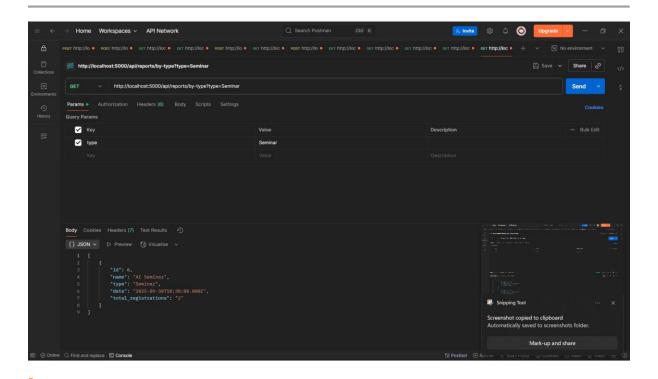
```
"student_id": 14,
  "student_name": "Fiona Wells",
  "events_attended": "1"
},
  "student_id": 13,
  "student_name": "Eliot Grant",
  "events_attended": "1"
},
  "student_id": 2,
  "student_name": "Bob Smith",
  "events_attended": "1"
},
  "student_id": 1,
  "student_name": "Alice Johnson",
  "events_attended": "1"
```

```
},
{
    "student_id": 11,
    "student_name": "Charlie Davis",
    "events_attended": "1"
},
{
    "student_id": 12,
    "student_id": 12,
    "student_name": "Dana Lee",
    "events_attended": "0"
}
```

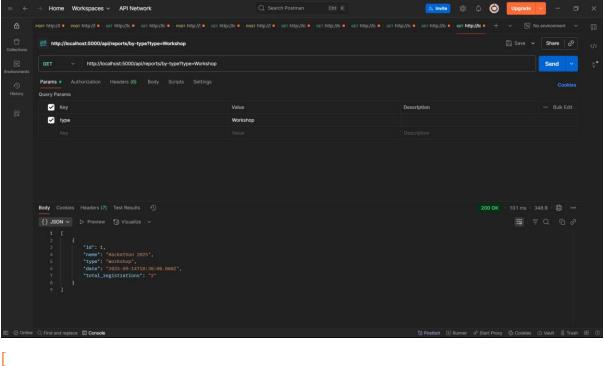


```
{
   "student_id": 14,
   "student_name": "Fiona Wells",
   "events_attended": "1"
},
{
```

```
"student_id": 13,
    "student_name": "Eliot Grant",
    "events_attended": "1"
},
{
    "student_id": 2,
    "student_name": "Bob Smith",
    "events_attended": "1"
}
```



```
"id": 6,
    "name": "AI Seminar",
    "type": "Seminar",
    "date": "2025-09-30T18:30:00.000Z",
    "total_registrations": "2"
}
```



```
"id": 1,
    "name": "Hackathon 2025",
    "type": "Workshop",
    "date": "2025-09-14T18:30:00.000Z",
    "total_registrations": "2"
}
```