QA SQL Test Case Table

Todo API

Test Case ID	API Action	Steps (API + SQL)	Expected Result	Severity	Status	Screenshots
DB01	**POST** Create Task	1.Send POST /tasks with { "title": "create a mini project", } 2.Run SELECT * FROM tasks WHERE title='create a mini project';	API response contains new Task ID. DB shows new row with correct title & completed=false	High	Pass	Figure 1, Figure 2
DB02	**PATCH** Update Task	1. Send PATCH /tasks/{id} with { "completed": true } 2. Run SELECT completed FROM task WHERE id={id};	DB value for completed = true, matches API response	High	Pass	Figure 3, Figure 4
DB03	**DELETE** Remove Tasks	1. Send DELETE /tasks/{id} 2. Run SELECT * FROM task WHERE id={id};	API returns { "deleted": true } DB has **0 rows** with that ID	High	Pass	Figure 5, Figure 6
DB04	**Negative** Create with Missing Title	1. Send POST /tasks with { "completed": false } (no title) 2. Check DB with SELECT * FROM task ORDER BY id DESC LIMIT 1;	API should return error. DB should **not** insert invalid row)	High	Pass	Figure 7

DB05	**Boundary** Long Title (255 chars)	1. Send POST /tasks with title length = 255 chars 2. Run SELECT title FROM task WHERE id={id};	DB accepts max-length string. API & DB show full title	Mediu m	Pass	Figure 8, Figure 9
DB06	**Negative** Invalid ID Fetch	1. Send GET /tasks/9999 2. Run SELECT * FROM task WHERE id=9999;	API returns error "Not Found". DB has no record	Low	Pass	Figure 10, Figure 11

Output

1. Create a task and select query in postgresql

Figure 1: Create a task
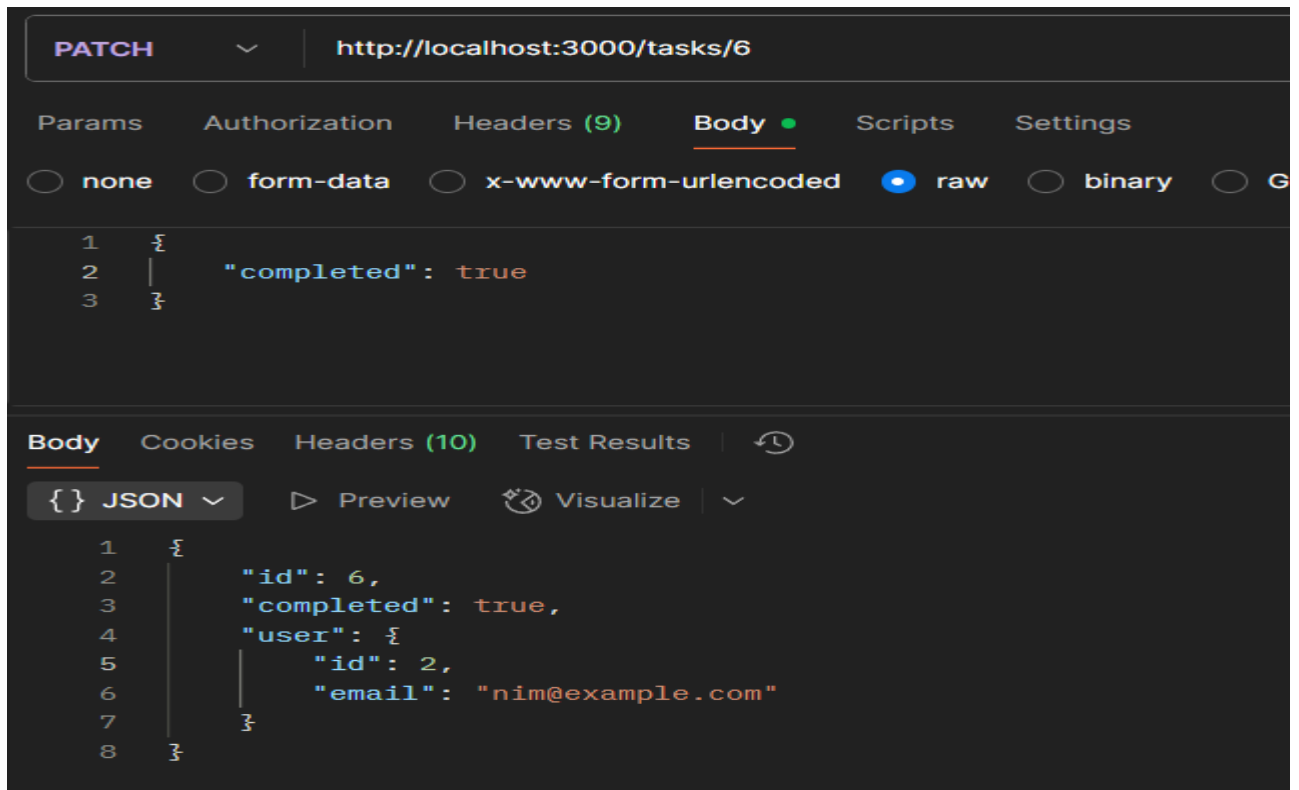

Figure 2: Select query
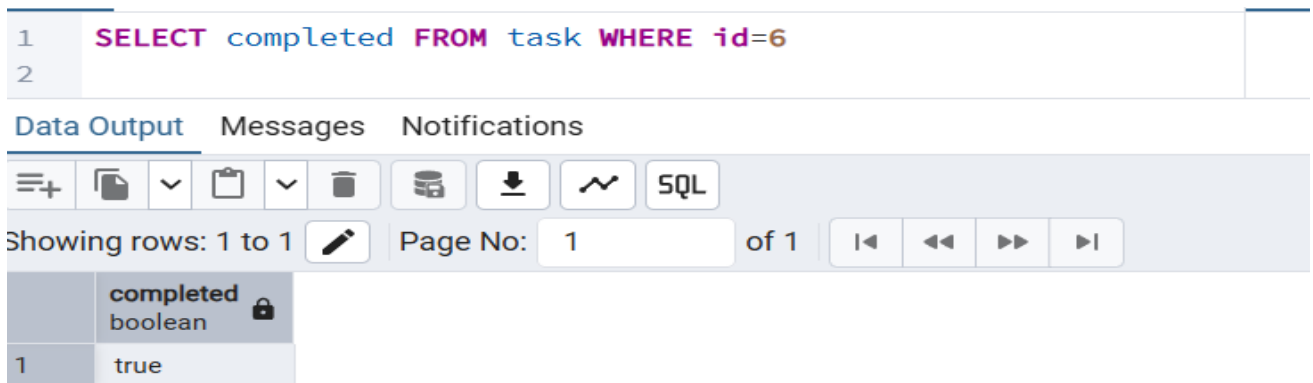
2. Update task

Figure 3: Update a task

Figure 4: Select query to check if it is updated or not
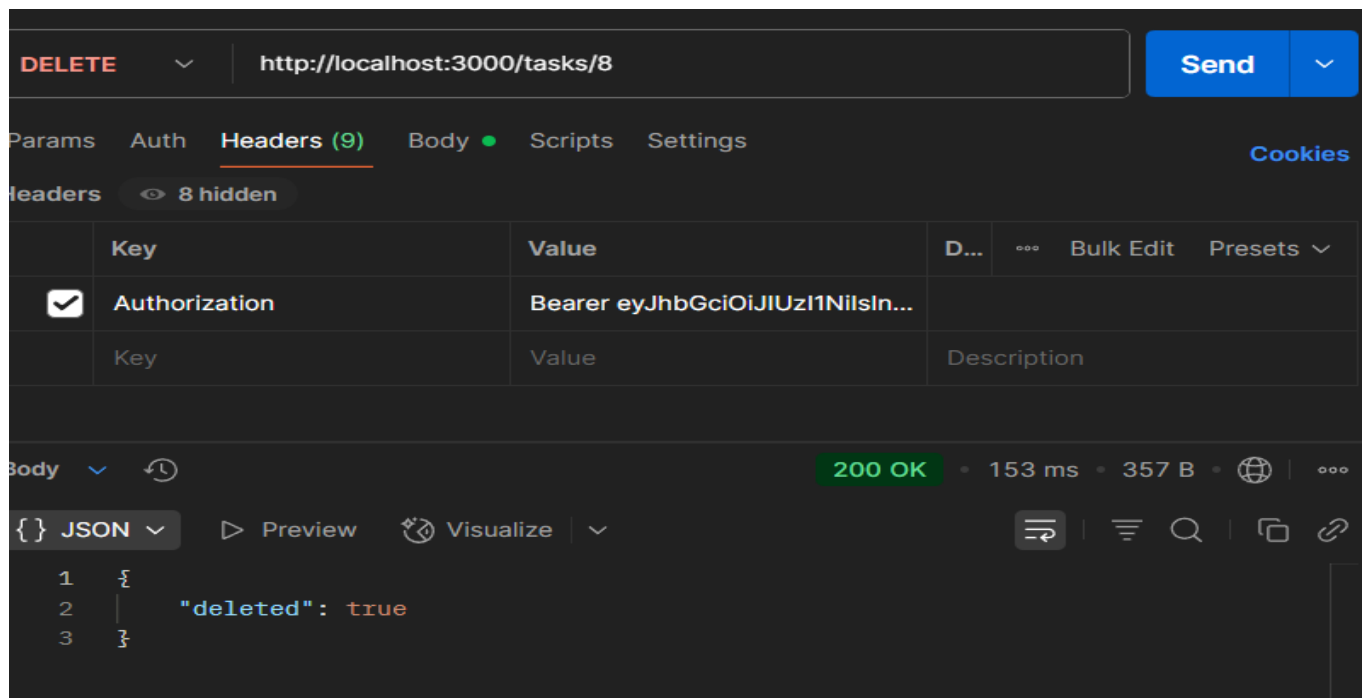
3. Delete task
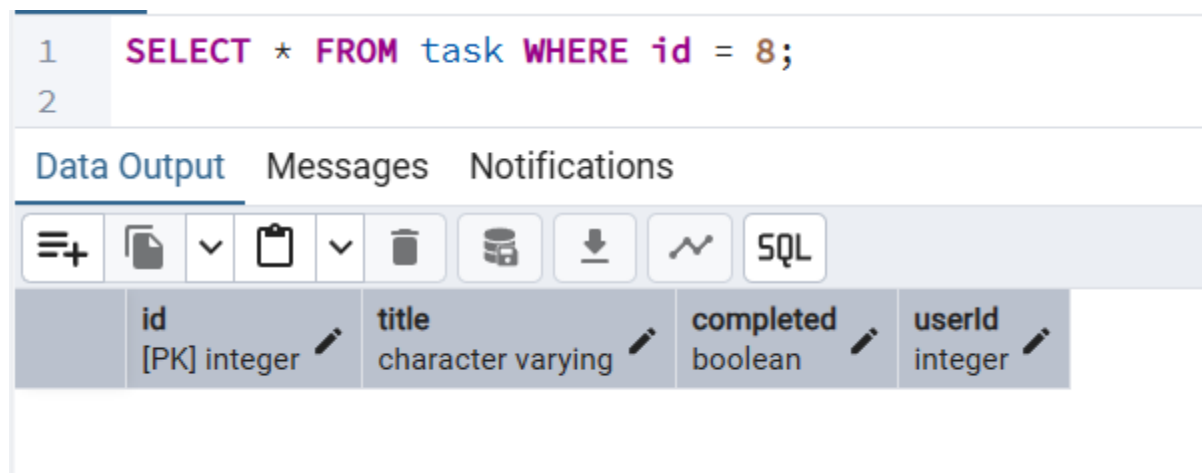

Figure 5: Delete a task of id = 8

Figure 6: Select query for id = 8
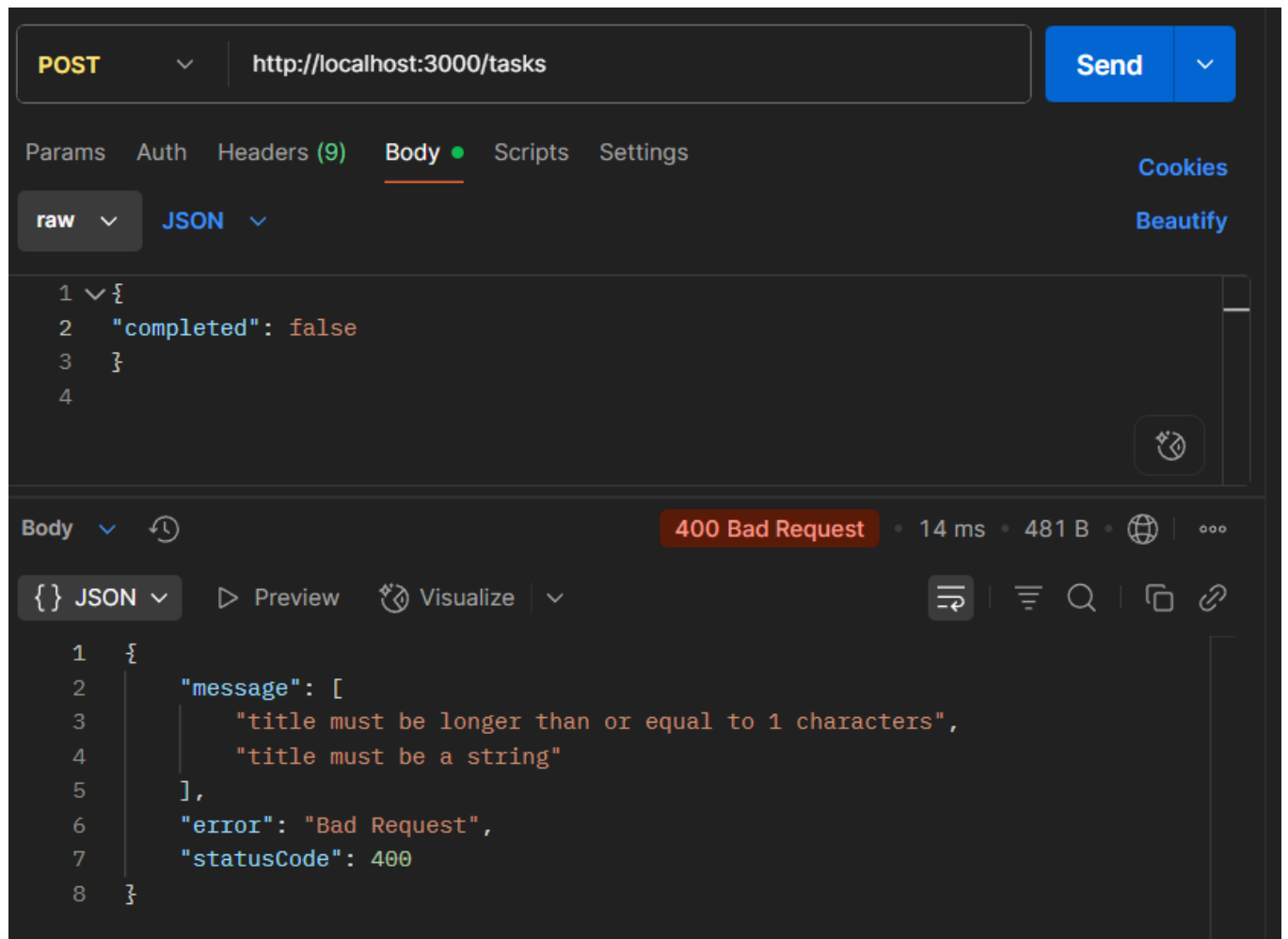
4. Body with no title

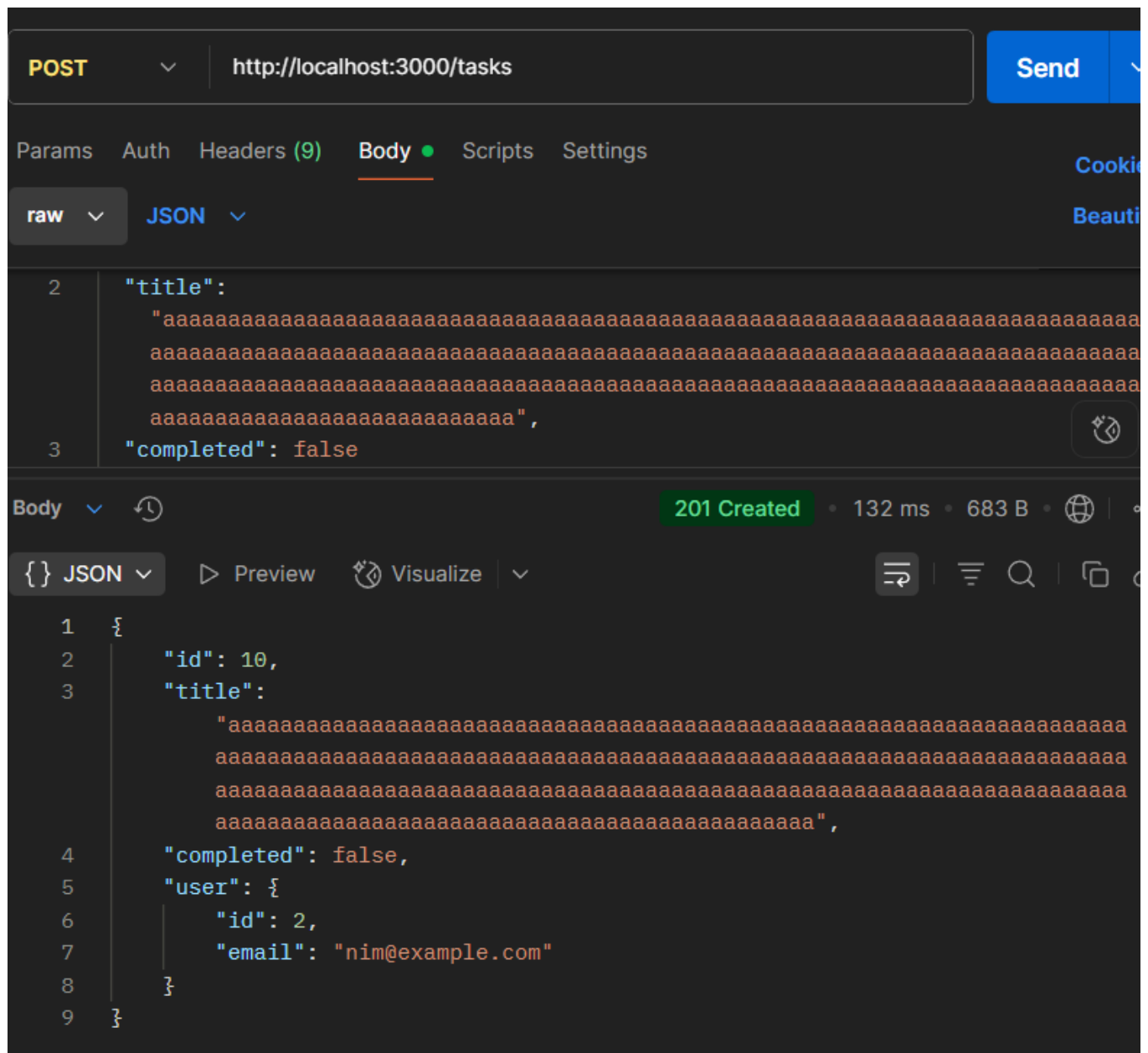Figure 7: Send body with no title

5.Task with 255 characters

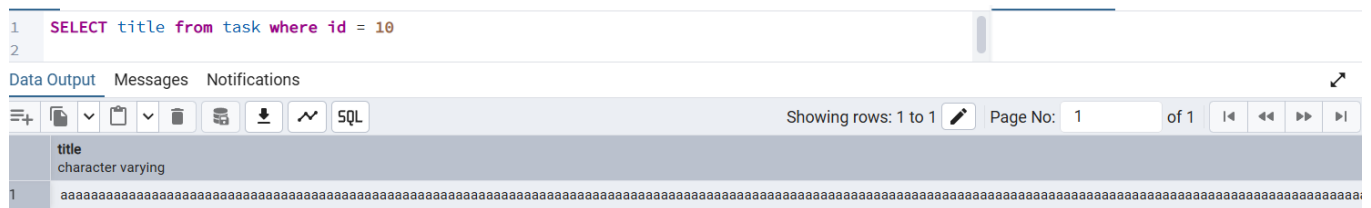Figure 8: Create task with 255 char in title

```
1   SELECT title from task where id = 10
2
```

Data Output   Messages   Notifications

title
character varying
aaa

Showing rows: 1 to 1   Page No: 1   of 1

Figure 9: Select query to retrieve record of id = 10

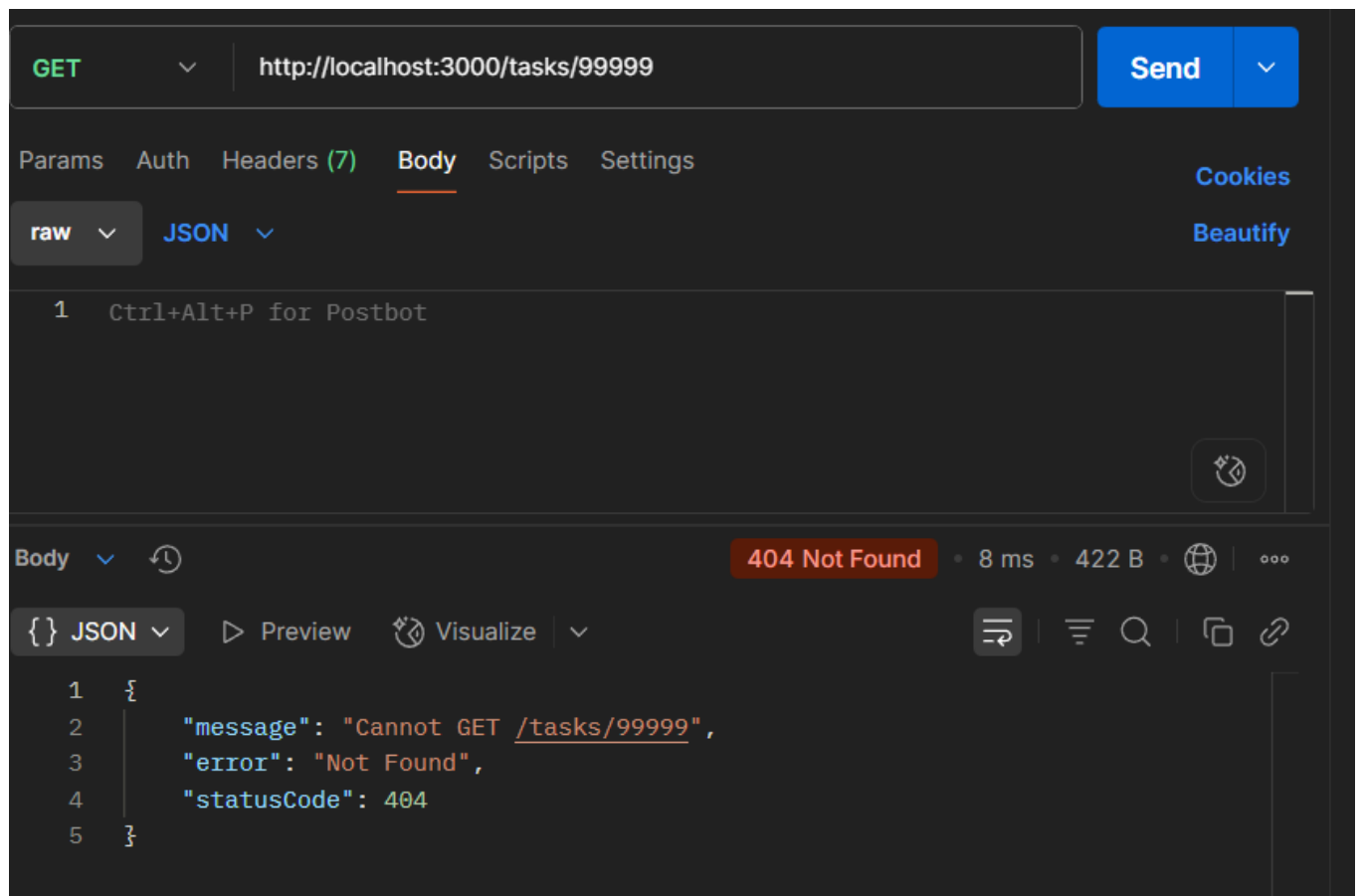## 6.Task with id not available in Database

Figure 10: Get task with no id in database

```
1    SELECT * from task where id= 9999
2
```

Data Output   Messages   Notifications

id [PK] integer	title character varying	completed boolean	userId integer

Figure 11: Select query of task with no id in database