Run Server: npm run dev1

Run Client: Thunder Client

Run Database: MySQL

DELETE Request

➔ localhost:3000/api/user/5

https://www.prisma.io/docs/orm/overview/prisma-in-your-stack/rest

REST API server example

DELETE

```
app.delete(`/post/:id`, async (req, res) => {
  const { id } = req.params
  const post = await prisma.post.delete({
    where: {
      id: Number(id),
    },
  })
  res.json(post)
})
```

serverDeleteRequest.js

```
// delete USERT by id
// DELETE api/user/:id
app.delete('/api/user/:id', async (req, res) => {
  const paramsUserid = req.params.id;
  console.log('req.params.id: ' + paramsUserid);

  //Find USER record by ID in USER table | Validation
  try {
    const userById = await prisma.user.findUnique({
      where: { id: parseInt(req.params.id) }
    });
    if (!userById) {
      return res.status(404).json({
        err: 'could not find USER Record in table by ID: ' + req.params.id
      });
    }

    // Find PROFILE records by User-ID in PROFILE table.
    // NOTE: User and Profile is a one-to-many relationship. It can return mo
    try {
      const profiles = await prisma.profile.findMany({
        where: { userId: parseInt(req.params.id) }
```

serverDeleteRequest.js

```
import { PrismaClient } from '@prisma/client';
import express from 'express';

const app = express();
const prisma = new PrismaClient();

// custom middleware
app.use((req, res, next) => {
  console.log(`${req.url} ${new Date()}`);
  next(); // call the next middleware in the stack
})

//-------------------------------------------------------
// RUN THIS SERVER:
// nodemon --watch --exec node src/serverDeleteRequest.js
```

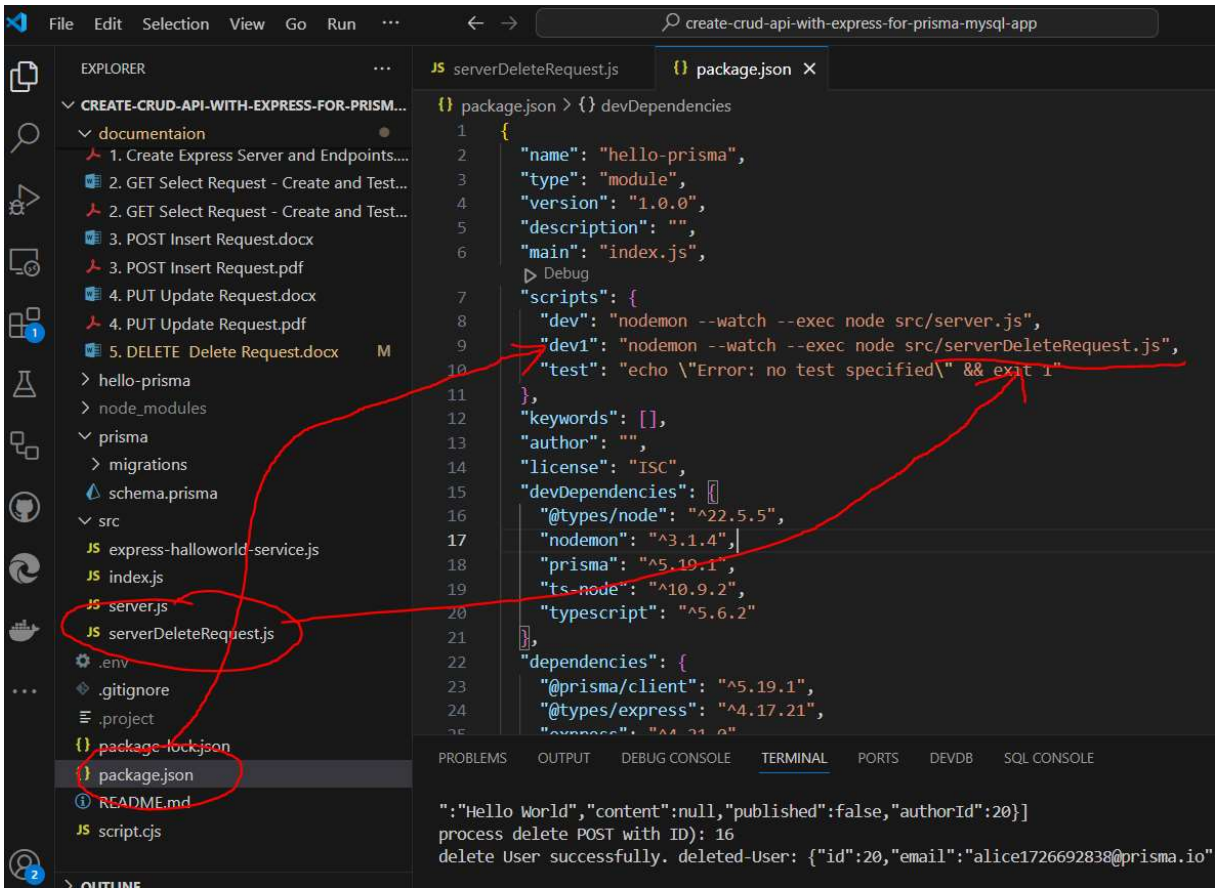
```
//-------------------------------------------------------

/*
// SEE: prisma.schema.prisma
// USER and POST is one-to-many relationship.
// USER and PROFILES is one-to-many relationship.
// TO DELETE A POST RECORED, WE NEED FIRST TO
// 1. DELETE THE POST WITH FOREIGN-KEY: POST-authorId=USER-id
// 2. DELETE THE PROFILE WITH FOREIGN-KEY: PROFILEID-userid=USER-id
// 3. DELETE THE USER WITH id (USER-id=POST-authorId=PROFILEID-userid)
// FOR EXAMPLE. TO DELETE A USER-id=18;
// CHECK:
// select * from post where authorId=18;
// select * from profile where userId=18;
// select * from user where Id=18;
// DELETE:
// delete from post where authorId=18;
// commit;
// delete from profile where userId=18;
// commit;
// delete from user where id =18;
// commit;
*/

// delete USERT by id
// DELETE api/user/:id
app.delete('/api/user/:id', async (req, res) => {
  const paramsUserid = req.params.id;
  console.log('req.params.id: ' + paramsUserid);

  //Find USER record by ID in USER table | Validation
  try {
    const userById = await prisma.user.findUnique({
      where: { id: parseInt(req.params.id) }
    });
    if (!userById) {
      return res.status(404).json({
        err: 'could not find USER Record in table by ID: ' + req.params.id
      });
    }
```

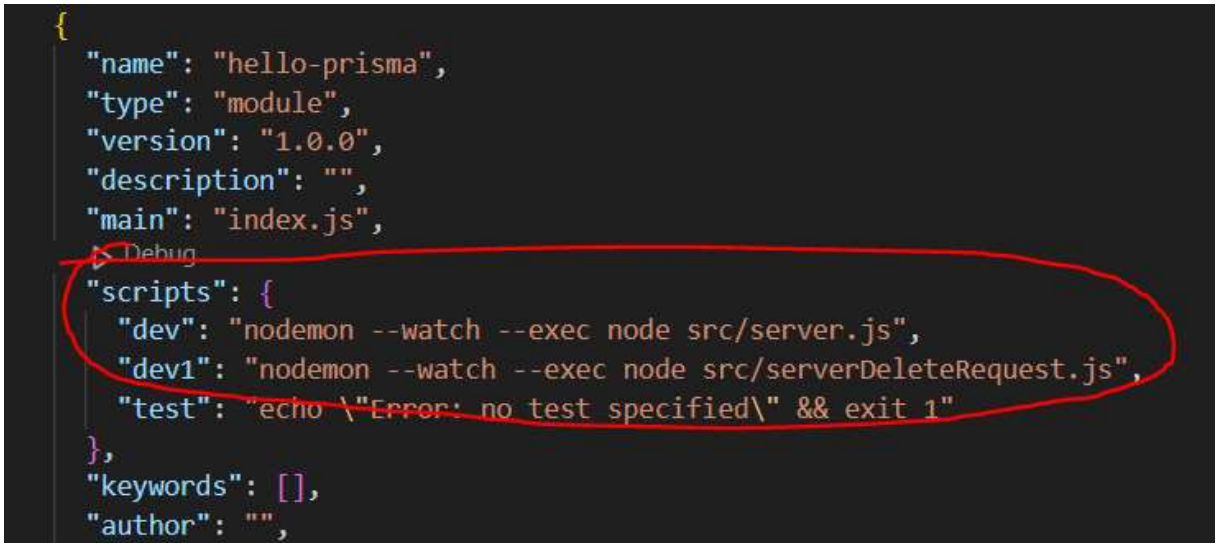
```
  // Find PROFILE records by User-ID in PROFILE table.
  // NOTE: User and Profile is a one-to-many relationship. It can return more than one records.
  try {
    const profiles = await prisma.profile.findMany({
      where: { userId: parseInt(req.params.id) }
    });
    console.log('PROFILES records found by userId: ' + JSON.stringify(profiles));
    // delete all Profile records with Foreign key (PROFILE-User-ID = USER-ID)
    // If found process looping all found records and delete them by id.
    if (profiles && profiles.length > 0) {
      for (let i = 0; i < profiles.length; i++) {
        console.log('process delete PROFILES with ID): ' + profiles[i].id);
        let deletedProfilesById = await prisma.profile.delete({
          where: { id: parseInt(profiles[i].id) }
        });
      }
    }
  }
  catch (err) {
    console.log('Delete Profil records failed with err: ' + JSON.stringify(err));
    console.log('Profile record could not deleted with userId: ' + req.params.id);
  }

  // Find POST records by Author-ID in POST table.
  // NOTE: User and POST is a one-to-many relationship. It can return more than one records.
  try {
    const posts = await prisma.post.findMany({
      where: { authorId: parseInt(req.params.id) }
    });
    console.log('POST records found by authorId: ' + JSON.stringify(posts));
    // delete all Post records with Foreign key (POST-Author-ID = USER-ID)
    // If found process looping all found records and delete them by id.
    if (posts && posts.length > 0) {
      for (let i = 0; i < posts.length; i++) {
        console.log('process delete POST with ID): ' + posts[i].id);
        let deletedPostById = await prisma.post.delete({
          where: { id: parseInt(posts[i].id) }
        });
      }
```

```
      }
    }
    catch (err) {
      console.log('Delete POST records faild with err: ' + JSON.stringify(err));
      console.log('Post record could not deleted with authorId: ' + req.params.id);
    }

    // delete User
    try {
      const deletedUser = await prisma.user.delete({
        where: {
          id: parseInt(req.params.id)
        }
      })
                console.log('delete User successfully. deleted-User: ' +
JSON.stringify(deletedUser));
      return res.status(200).json(deletedUser);
    }
    catch (err) {
      console.log('Delete User record failed with Id: ' + req.params.id);
      console.log('err: ' + JSON.stringify(err));
      return res.status(404).json(err);
    }
  }
  catch (err) {
    console.log('User record not found with id: ' + paramsUserid);
    return res.status(404).json(err);
  }
});

app.listen(3000, () => {
  console.log('Server is running at port 3000');
})
```

On package.json: add dev1.

"dev1": "nodemon --watch --exec node src/serverDeleteRequest.js",





Package.json

```
{
 "name": "hello-prisma",
 "type": "module",
 "version": "1.0.0",
 "description": "",
 "main": "index.js",
 "scripts": {
  "dev": "nodemon --watch --exec node src/server.js",
  "dev1": "nodemon --watch --exec node src/serverDeleteRequest.js",
  "test": "echo \"Error: no test specified\" && exit 1"
 },
```

➔ RE-RUN SERVER…

(As long as change something in the serverDeleteRequest.js. We need to re-run the server.)

➔ Ctrl + C → Type → J → Stop the Server

```
tle":"Hello World","content":null,"published":true,"authorId":1}
Batchvorgang abbrechen (J/N)? j
PS C:\Users\Family\git\create-crud-api-with-express-for-prisma-mysql-app>
```

➔ RUN SERVER… | npm run dev1

C:\Users\Family\git\create-crud-api-with-express-for-prisma-mysql-app> npm run dev1

```
{
  "name": "hello-prisma",
  "type": "module",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  Debug
  "scripts": {
    "dev": "nodemon --watch --exec node src/server.js",
    "dev1": "nodemon --watch --exec node src/serverDeleteRequest.js",
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
```

```
deletedUser: {"id":21,"email":"alice1726693020@prisma.io","name":"Alice"}
Batchvorgang abbrechen (J/N)? j
PS C:\Users\Family\git\create-crud-api-with-express-for-prisma-mysql-app> npm run dev1

> hello-prisma@1.0.0 dev1
> nodemon --watch --exec node src/serverDeleteRequest.js

[nodemon] 3.1.4
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): --exec
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node node src/serverDeleteRequest.js`
Server is running at port 3000
/api/user/20 Thu Sep 19 2024 13:57:45 GMT+0200 (Mitteleuropäische Sommerzeit)
req.params.id: 20
PROFILES records found by userId: [{"id":16,"bio":"I like turtles","userId":20}]
```

```
> hello-prisma@1.0.0 dev1
> nodemon --watch --exec node src/serverDeleteRequest.js

[nodemon] 3.1.4
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): --exec
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node node src/serverDeleteRequest.js`
Server is running at port 3000
```

➔ Thnder Client | http Client

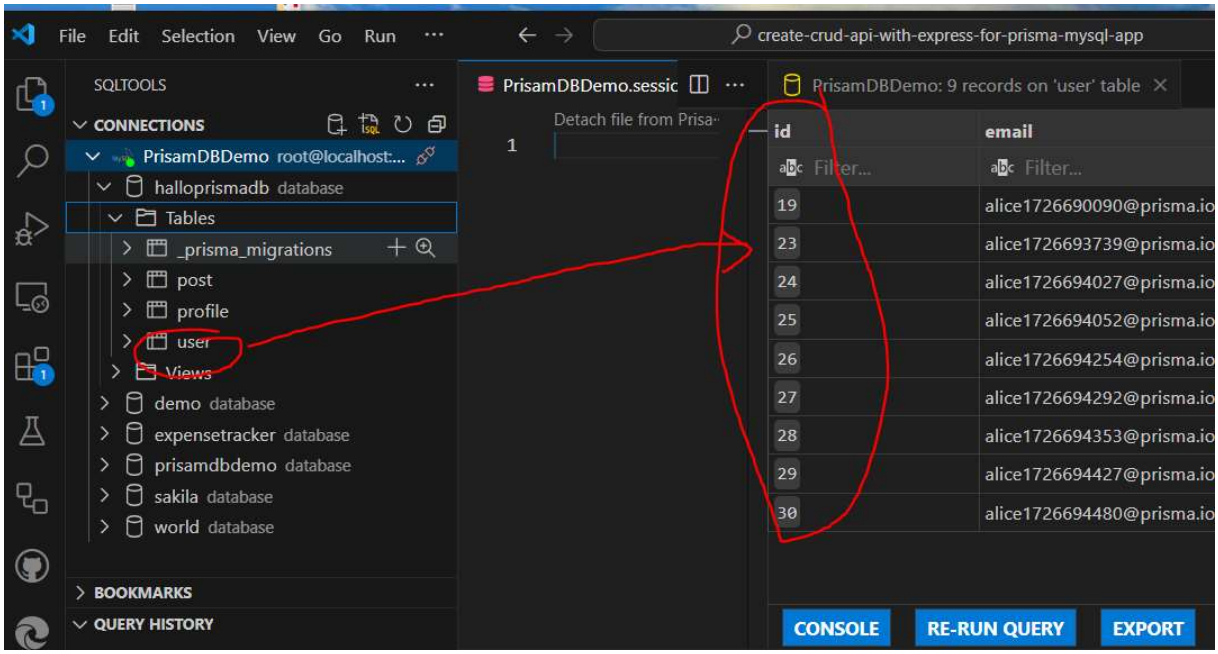
https://www.prisma.io/docs/orm/overview/prisma-in-your-stack/rest

REST API server example

DELETE

```
app.delete(`/post/:id`, async (req, res) => {
  const { id } = req.params
  const post = await prisma.post.delete({
    where: {
      id: Number(id),
    },
  })
  res.json(post)
})
```

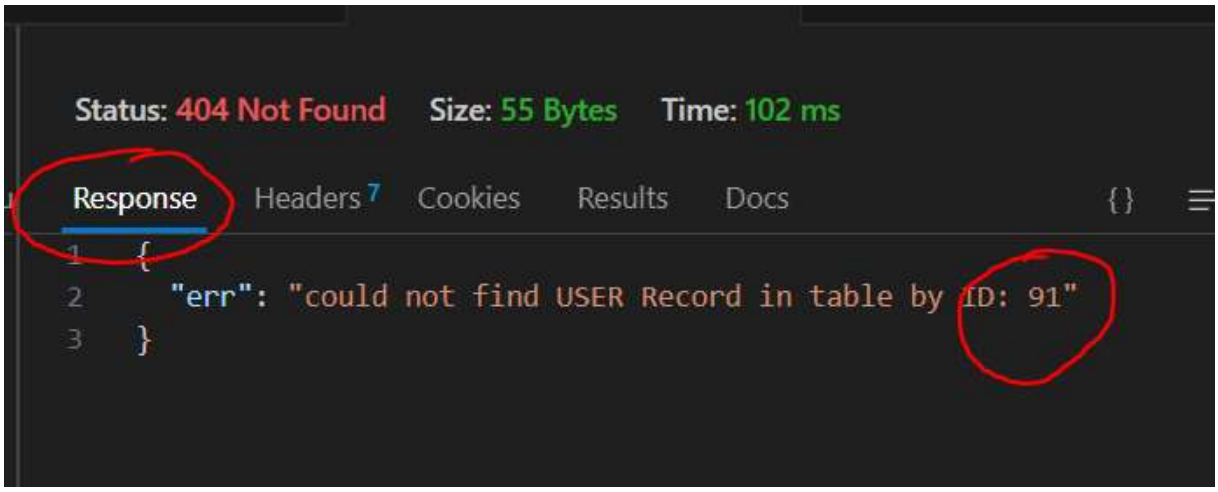
MySQL database USER table without ID=91. Use for ERROR validation.



ERROR Validation

DELETE → localhost:3000/api/user/91

:id = 91



GET Response deleted error info with Status 404 Not Found OK 😊

```
{
"err": "could not find USER Record in table by ID: 91"
}
```

LOG →

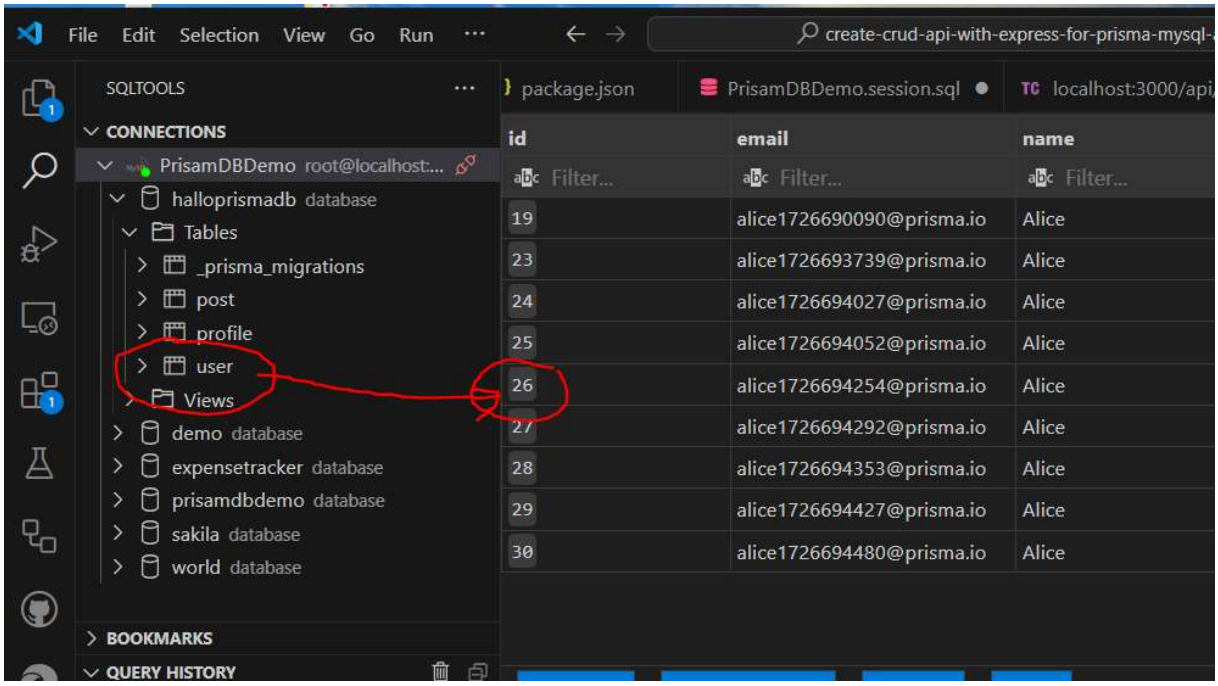
```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS    DEVDB    SQL CONSOLE

[nodemon] 3.1.4
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): --exec
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node node src/serverDeleteRequest.js`
Server is running at port 3000
/api/user/91 Fri Sep 20 2024 17:48:11 GMT+0200 (Mitteleuropäische Sommerzeit)
req.params.id: 91
```

DELETE USER with ID=26

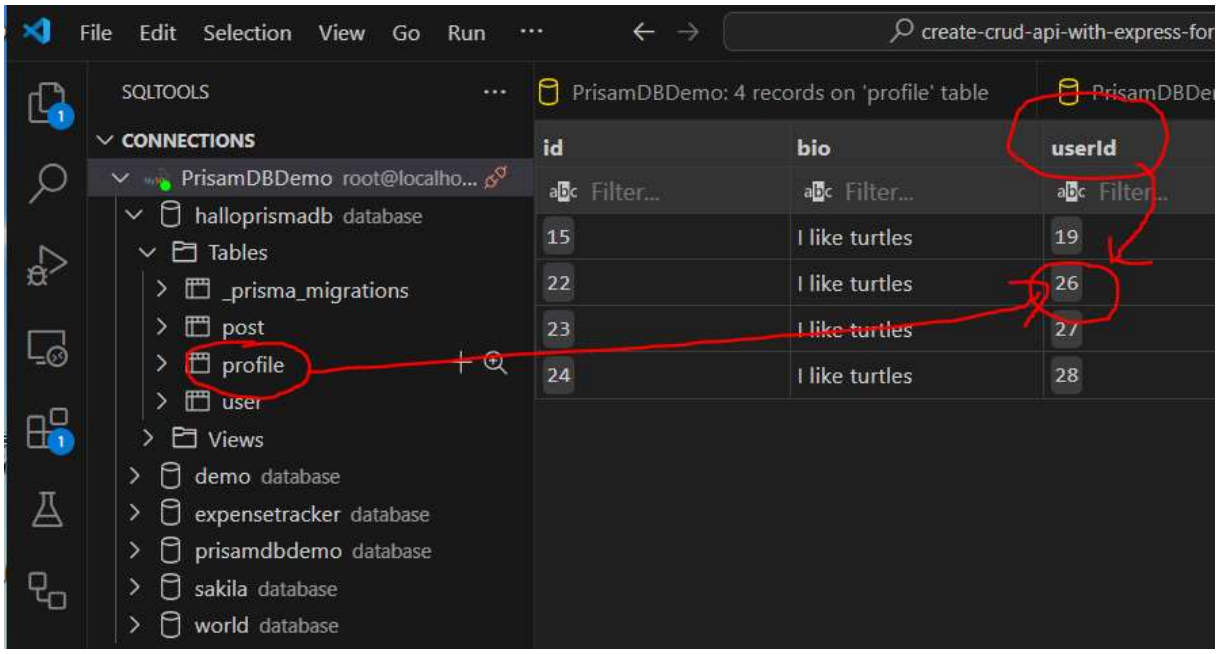
DELETE → localhost:3000/api/user/26

:id = 26

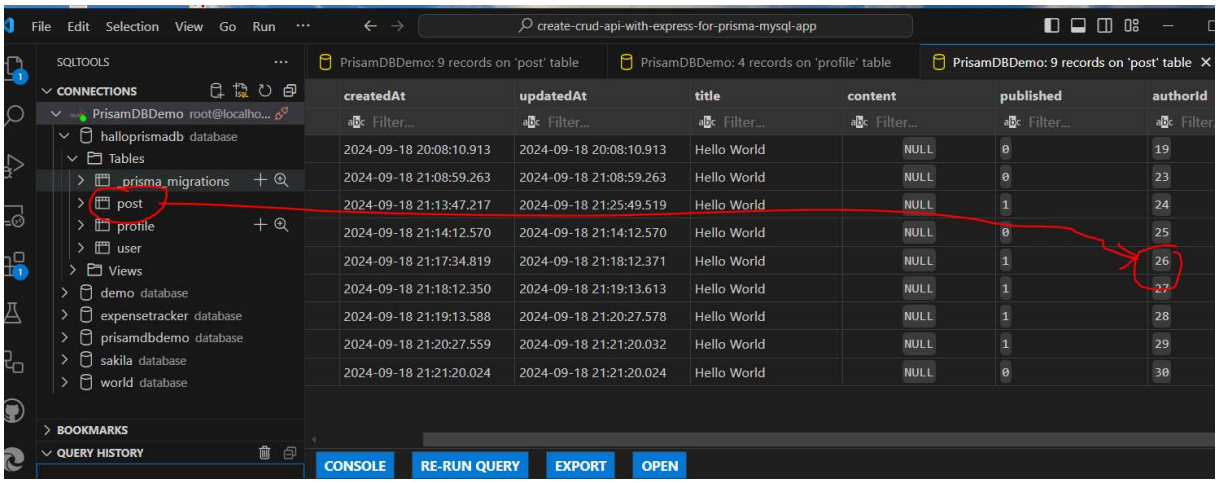
User contains id=26



Profile contains foreign key userId=26



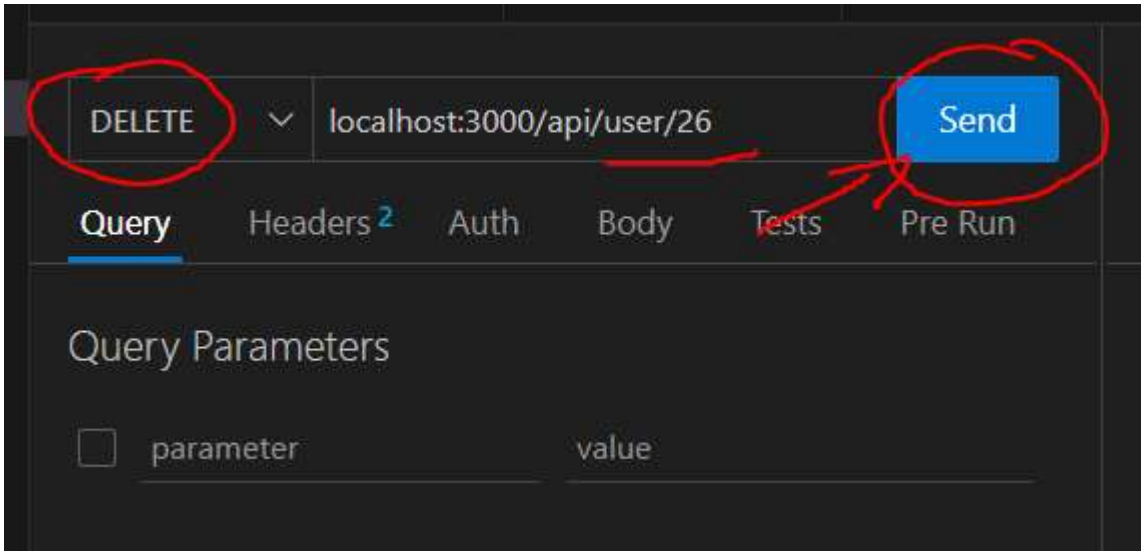
POST contains foreign key authorId 26



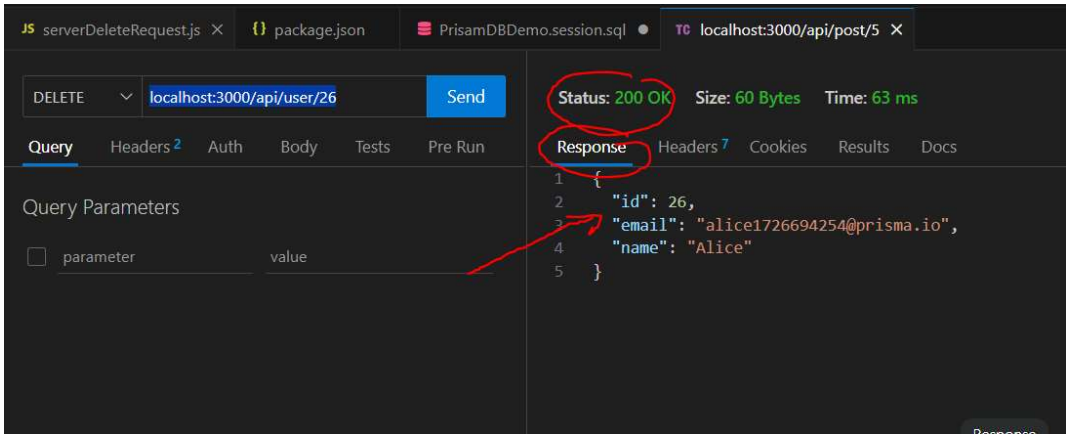
createdAt	updatedAt	title	content	published	authorId
2024-09-18 20:08:10.913	2024-09-18 20:08:10.913	Hello World	NULL	0	19
2024-09-18 21:08:59.263	2024-09-18 21:08:59.263	Hello World	NULL	0	23
2024-09-18 21:13:47.217	2024-09-18 21:25:49.519	Hello World	NULL	1	24
2024-09-18 21:14:12.570	2024-09-18 21:14:12.570	Hello World	NULL	0	25
2024-09-18 21:17:34.819	2024-09-18 21:18:12.371	Hello World	NULL	1	26
2024-09-18 21:18:12.350	2024-09-18 21:19:13.613	Hello World	NULL	1	27
2024-09-18 21:19:13.588	2024-09-18 21:20:27.578	Hello World	NULL	1	28
2024-09-18 21:20:27.559	2024-09-18 21:21:20.032	Hello World	NULL	1	29
2024-09-18 21:21:20.024	2024-09-18 21:21:20.024	Hello World	NULL	0	30

Click → Thunder CLient

DELETE → localhost:3000/api/user/26



USER, POST, PROFILE were delted with Status 200 OK and Response message with id=26

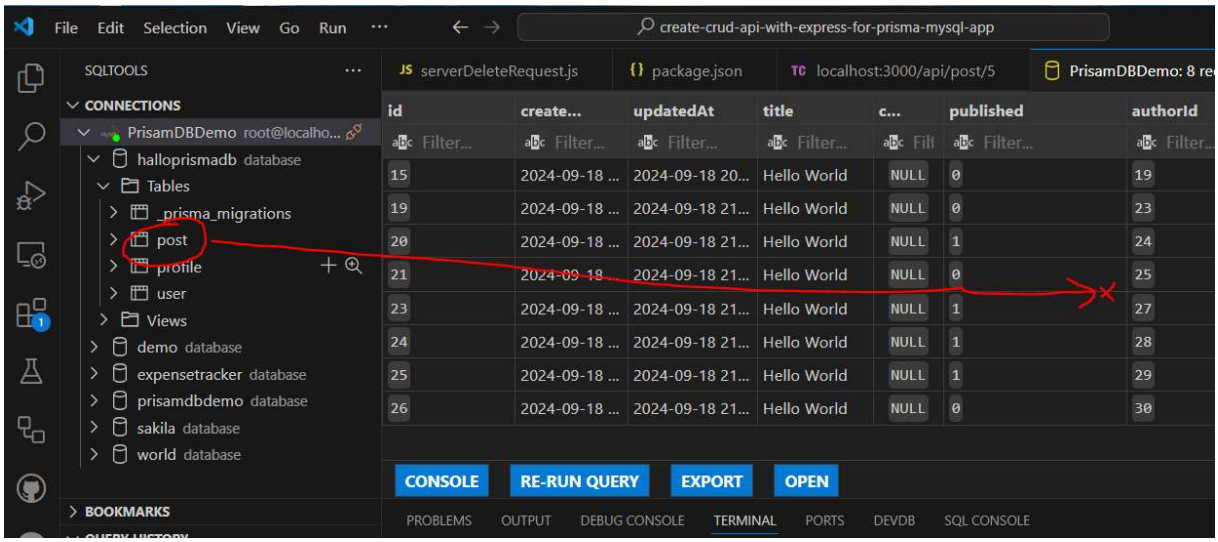


LOG →

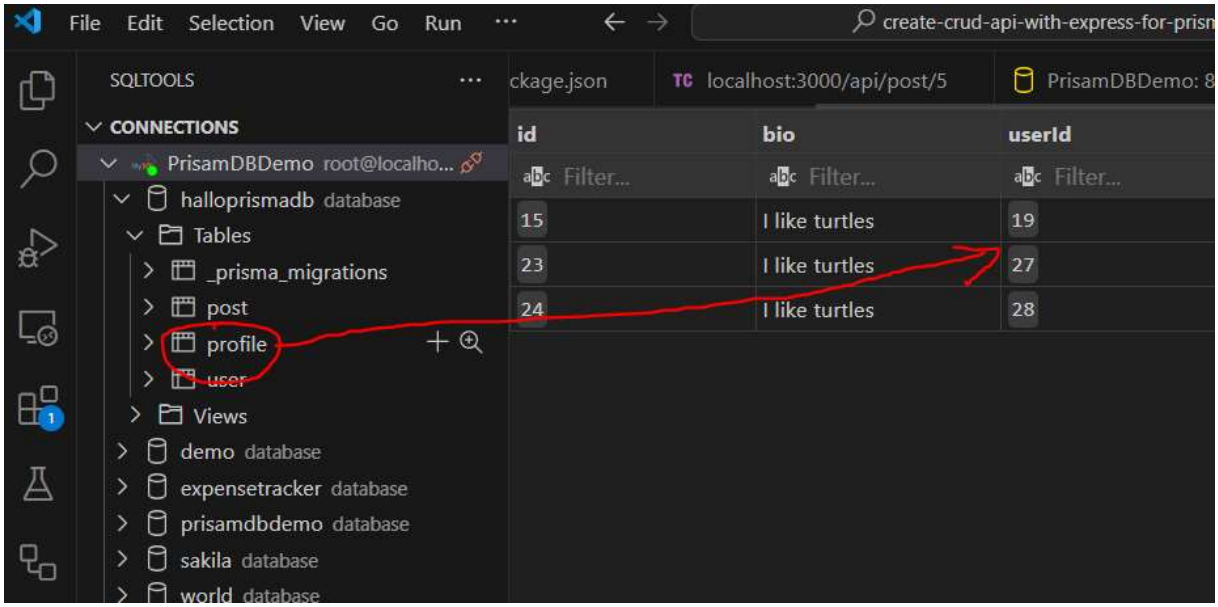
```
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node node src/serverDeleteRequest.js`
Server is running at port 3000
/api/user/91 Fri Sep 20 2024 17:48:11 GMT+0200 (Mitteleuropäische Sommerzeit)
req.params.id: 91
/api/user/26 Fri Sep 20 2024 18:01:51 GMT+0200 (Mitteleuropäische Sommerzeit)
req.params.id: 26
PROFILES records found by userId: [{"id":22,"bio":"I like turtles","userId":26}]
process delete PROFILES with ID): 22
POST records found by authorId: [{"id":22,"createdAt":"2024-09-18T21:17:34.819Z","updatedAt":"2024-09-18T21:18:12.371Z","title":"
Hello World","content":null,"published":true,"authorId":26}]
process delete POST with ID): 22
delete User successfully. deleted-User: {"id":26,"email":"alice1726694254@prisma.io","name":"Alice"}
```

My SQL Database

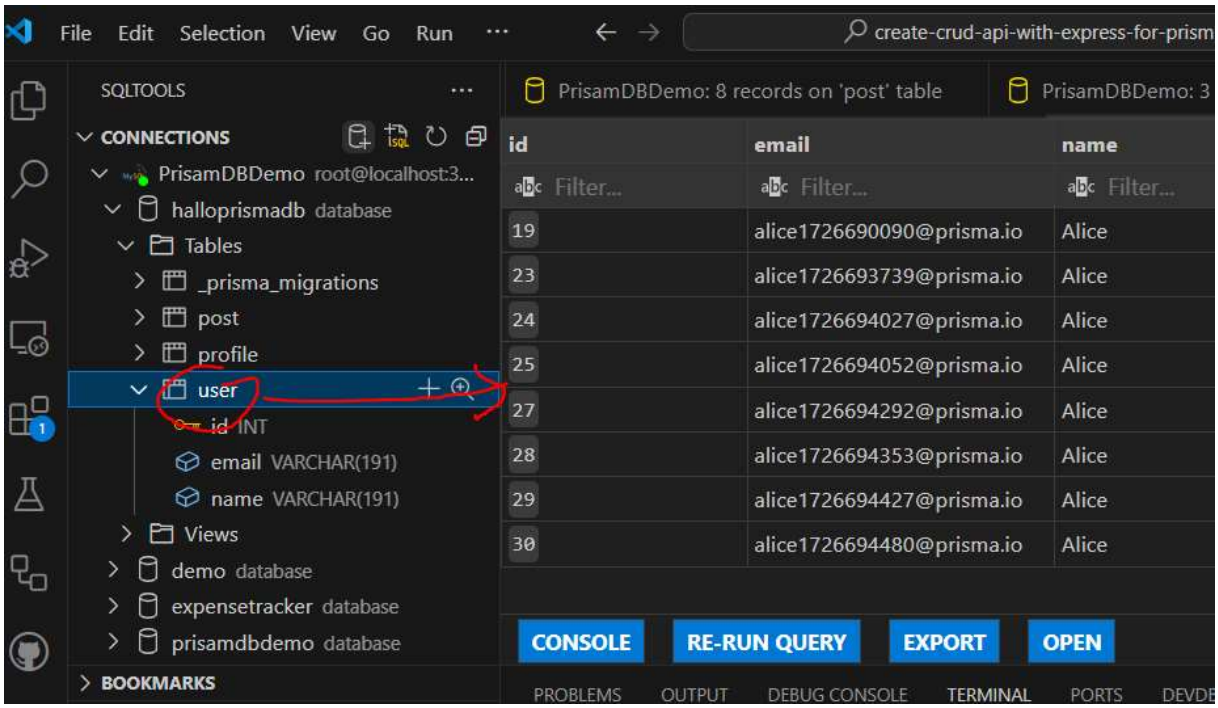
POST authorId=26 was deleted.



Profile contains userId=26 was deleted



User contans id=26 was deleted



USER, POST, PROFILE were delted successfully 😄