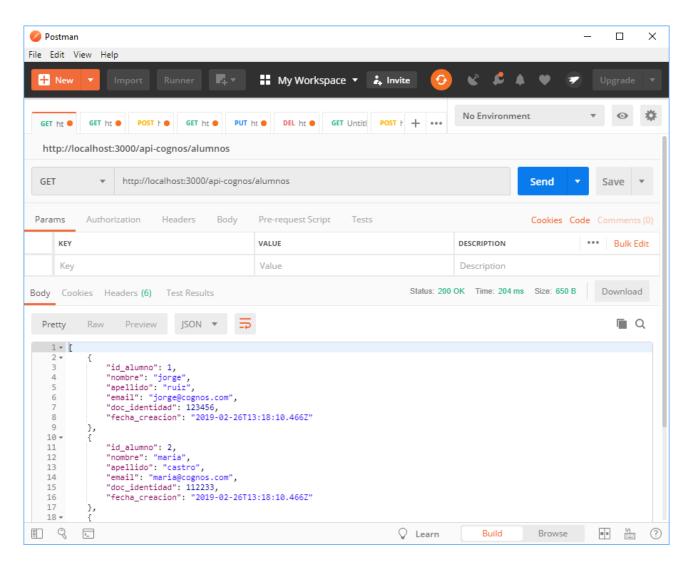
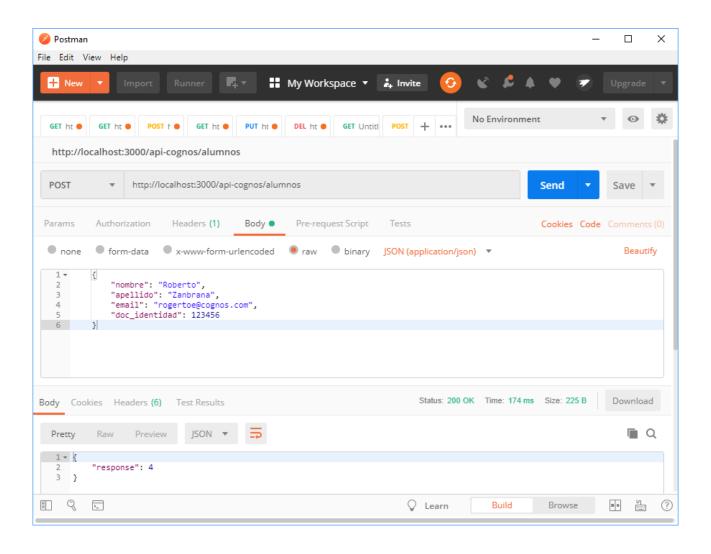


http://localhost:3000/api-cognos/alumnos









```
C:\WINDOWS\system32\cmd.exe
                                                                             Х
D:\marcelomos\laboratorios>mkdir api-postgres-node-express
D:\marcelomos\laboratorios>cd api-postgres-node-express
D:\marcelomos\laboratorios\api-postgres-node-express>npm init --yes
Wrote to D:\marcelomos\laboratorios\api-postgres-node-express\package.json:
  "name": "api-postgres-node-express",
  "version": "1.0.0",
  "description": "",
  "main": "index.js"
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
"keywords": [],
  "author": ""
  "license": "ISC"
D:\marcelomos\laboratorios\api-postgres-node-express>npm i express pg
           created a lockfile as package-lock.json. You should commit this file.
npm WARN api-postgres-node-express@1.0.0 No description
npm WARN api-postgres-node-express@1.0.0 No repository field.
 express@4.16.4
+ pg@7.8.1
added 64 packages from 44 contributors and audited 137 packages in 20.479s
found 0 vulnerabilities
D:\marcelomos\laboratorios\api-postgres-node-express>
```



```
CREATE TABLE public.alumno (
    id_alumno serial NOT NULL,
    nombre varchar(50) NULL,
    apellido varchar(50) NULL,
    email varchar(50) NULL,
    doc_identidad int4 NULL,
    fecha_creacion timestamp NULL DEFAULT now(),
    CONSTRAINT alumno_pkey PRIMARY KEY (id_alumno)
);
```

```
/src/db.js
```

```
const Pool = require("pg").Pool;
const pool = new Pool({
   user: "postgres",
   host: "192.168.4.22",
   database: "cognosdb",
   password: "123456",
   port: 5432
});
module.exports = pool;
```



```
/package.json

{
    "name": "api-postgres-node-express",
    "version": "1.0.0",
    "description": "",
    "main": "index.js",
    "scripts": {
        "test": "echo \"Error: no test specified\" && exit 1",
        "start": "node src/."
    },
    "keywords": [],
    "author": "",
    "license": "ISC",
    "dependencies": {
        "express": "^4.16.4",
        "pg": "^7.8.1"
    }
}
```



/src/index.js

```
const express = require('express');
const path = require('path');

// initializations
const app = express();

// settings
app.set('port', process.env.PORT || 3000);

// middlewares
app.use(express.urlencoded({extended: false}));
app.use(express.json());

// routes
app.use(require('./rutas/alumnos-ruta.js'));

// Start the server
app.listen(app.get('port'), () => {
    console.log("Server escuchando ", app.get('port'))
});
```



/src/rutas/alumnos-rutas.js

```
const { Router } = require('express');
const pool = require('../db');
const router = new Router();
router.get('/api-cognos/alumnos', (req, res) => {
    pool.query(
        "SELECT * FROM alumno ORDER BY id_alumno ASC",
        (error, results) => {
          if (error) {
            throw error;
          res.status(200).json(results.rows);
      );
});
router.post('/api-cognos/alumnos', (req, res) => {
    const { nombre, apellido, email, doc_identidad } = req.body;
    pool.query(
      "INSERT INTO alumno (nombre, apellido, email, doc_identidad) VALUES ($1,
$2,$3,$4) RETURNING id_alumno",
      [nombre, apellido, email, doc_identidad],
      (error, results) => {
        if (error) {
          throw error;
        res.status(200).json({ response: results.rows[0].id_alumno });
});
```



```
router.get('/api-cognos/alumnos/:id', (req, res) => {
    const id = parseInt(req.params.id);
    pool.query(
      "SELECT * FROM alumno WHERE id_alumno = $1",
      [id],
      (error, results) => {
        if (error) {
          throw error;
        res.status(200).json(results.rows);
 });
router.put('/api-cognos/alumnos/:id', (req, res) => {
    const id = parseInt(req.params.id);
    const { nombre, apellido, email, doc_identidad } = req.body;
    pool.query(
      "UPDATE alumno SET nombre = $1, apellido = $2,email = $3,doc_identidad = $4
WHERE id_alumno = $5",
      [nombre, apellido, email, doc_identidad, id],
      (error, results) => {
        if (error) {
          throw error;
        res.status(200).send(`User modified with ID: ${id}`);
});
```



```
router.delete('/api-cognos/alumnos/:id', (req, res) => {
   const id = parseInt(req.params.id);
   pool.query(
        "DELETE FROM alumno WHERE id_alumno = $1",
        [id],
        (error, results) => {
        if (error) {
            throw error;
        }
        res.status(200).send(`User deleted with ID: ${id}`);
    }
   );
});
module.exports = router;
```