Evidencias Peticiones Postman

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ingeniería en sistemas, corporación universitaria el minuto de Dios

Bases de Datos Masivas

NRC-10-60747

Prof. William Alexander Matallana Porras

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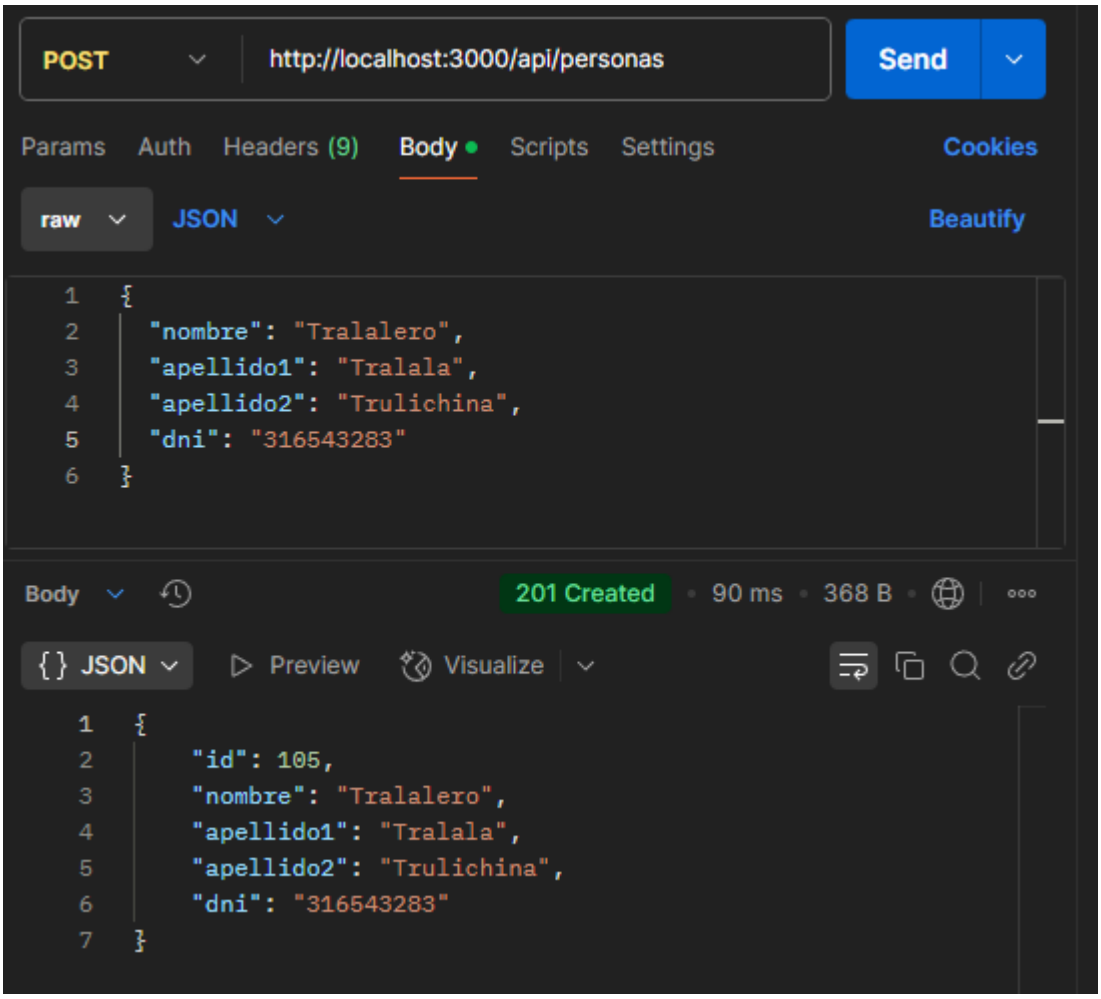
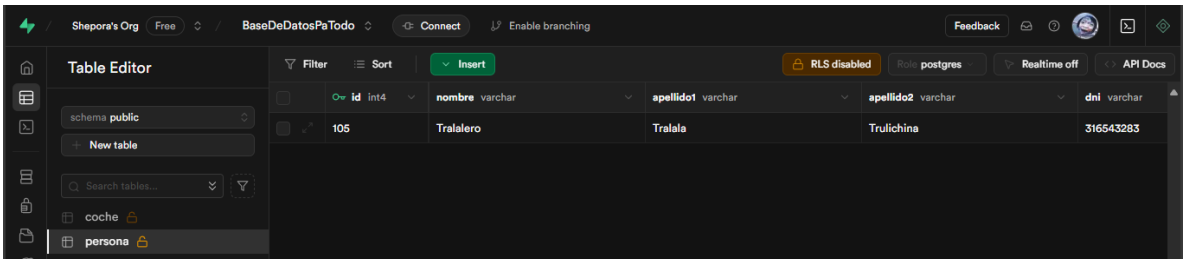
- **Endpoints para Personas**

Agregar persona.

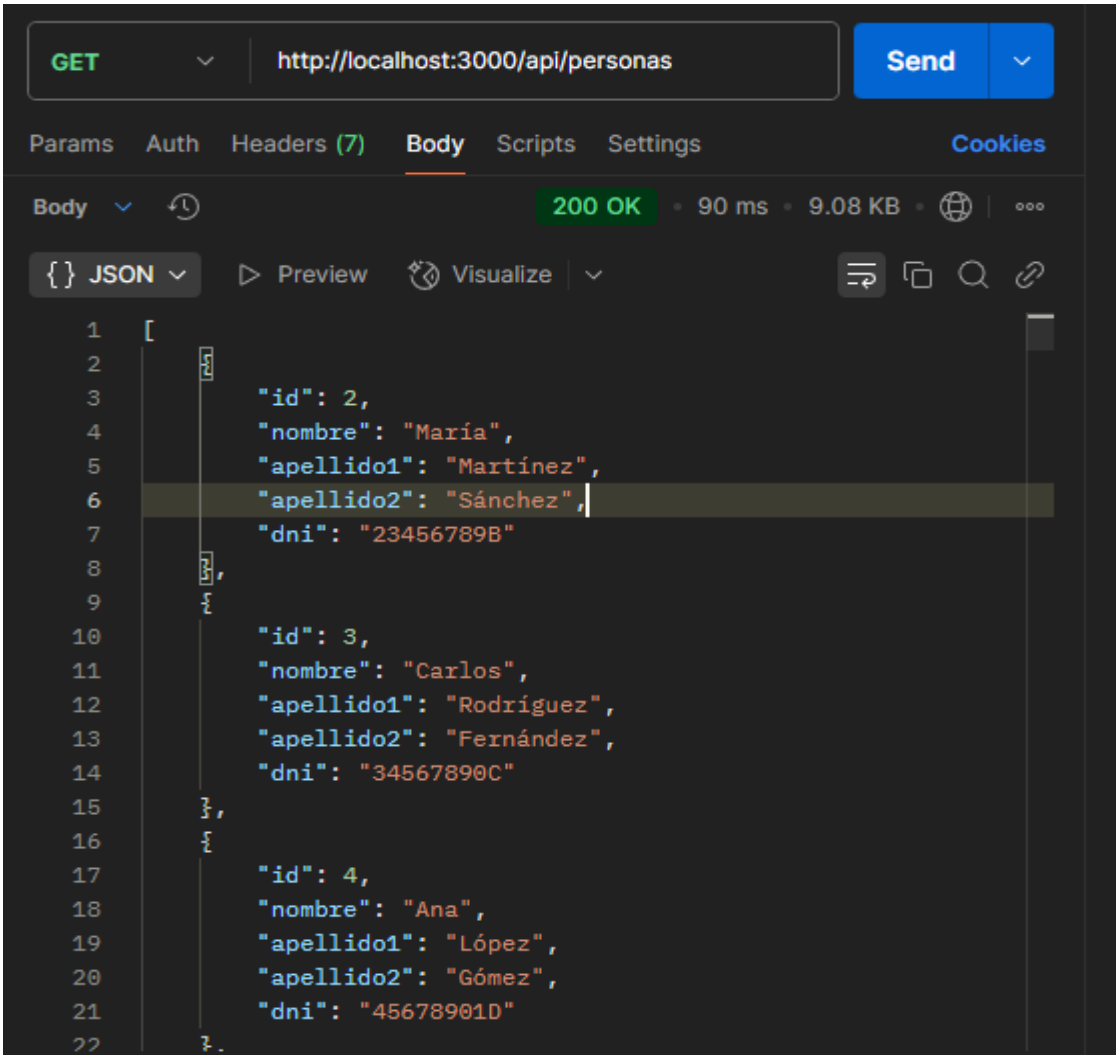
```
// Endpoints para Personas
app.post('/api/personas', async (req, res) => {
  const { nombre, apellido1, apellido2, dni } = req.body;
  try {
    const result = await client.query(
      'INSERT INTO Persona (nombre, apellido1, apellido2, dni) VALUES ($1, $2, $3, $4) RETURNING *
      [nombre, apellido1, apellido2, dni]
    );
    res.status(201).json(result.rows[0]);
  } catch (err) {
    res.status(500).json({ error: err.message });
  }
});
```





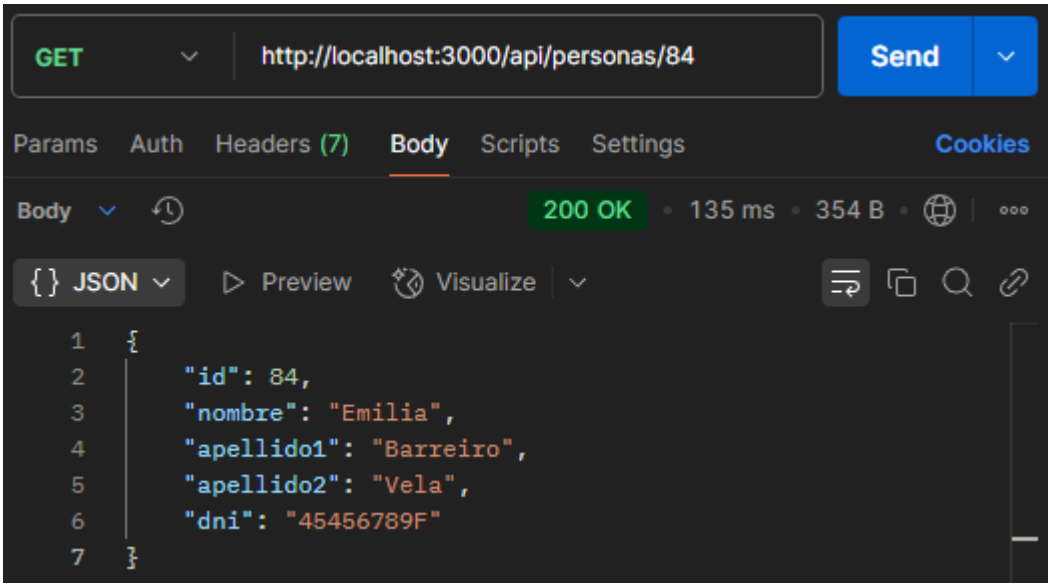
Mostrar personas

```
app.get('/api/personas', async (req, res) => {
  try {
    const result = await client.query('SELECT * FROM Persona');
    res.status(200).json(result.rows);
  } catch (err) {
    res.status(500).json({ error: err.message });
  }
});
```



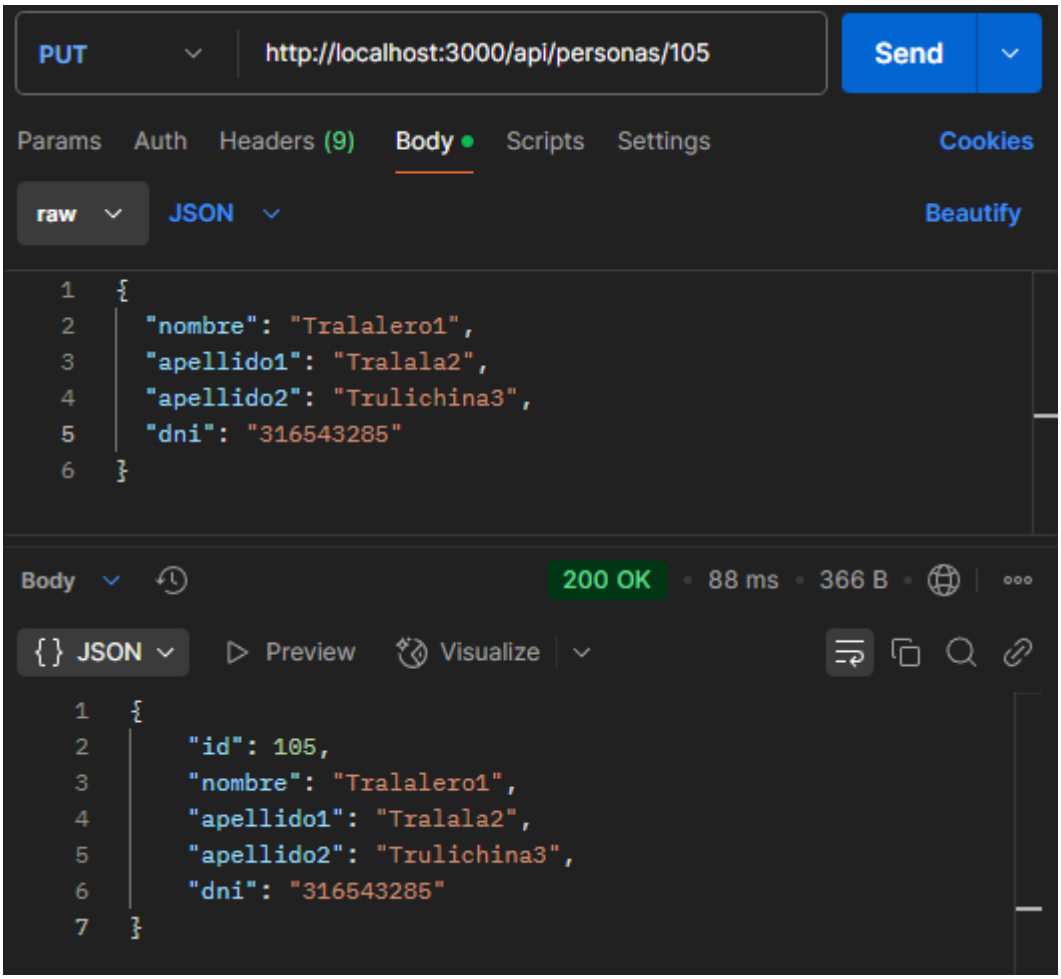
Mostrar persona por ID

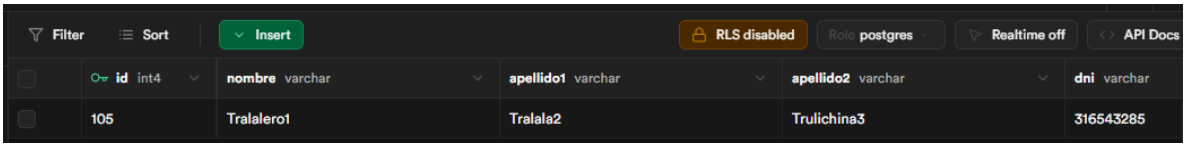
```
app.get('/api/personas/:id', async (req, res) => {
  const { id } = req.params;
  try {
    const result = await client.query('SELECT * FROM Persona WHERE id = $1', [id]);
    if (result.rows.length === 0) {
      return res.status(404).json({ error: 'Persona no encontrada' });
    }
    res.status(200).json(result.rows[0]);
  } catch (err) {
    res.status(500).json({ error: err.message });
  }
});
```



Actualizar persona por ID

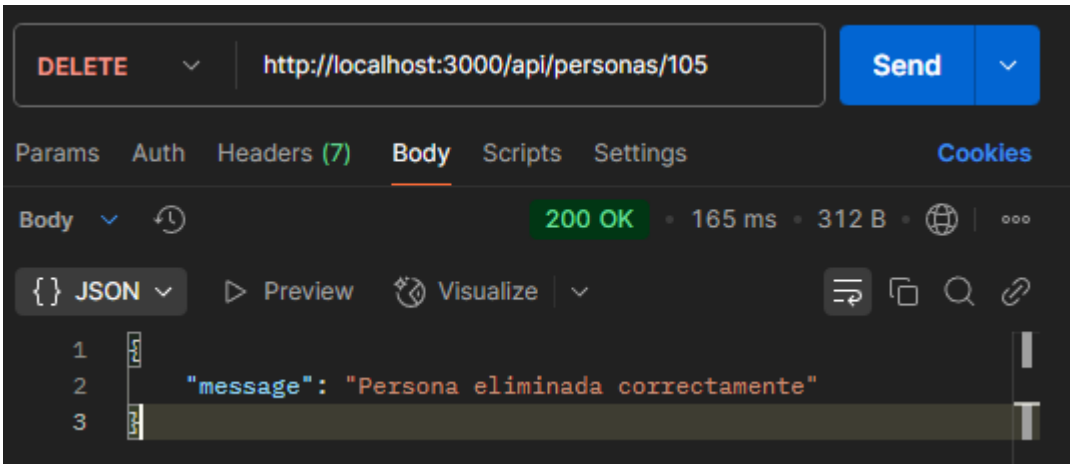
```
app.put('/api/personas/:id', async (req, res) => {
  const { id } = req.params;
  const { nombre, apellido1, apellido2, dni } = req.body;

  try {
    const result = await client.query(
      'UPDATE Persona SET nombre = $1, apellido1 = $2, apellido2 = $3, dni = $4 WHERE id = $5 RETURNING *',
      [nombre, apellido1, apellido2, dni, id]
    );
    if (result.rows.length === 0) {
      return res.status(404).json({ error: 'Persona no encontrada' });
    }
    res.status(200).json(result.rows[0]);
  } catch (err) {
    res.status(500).json({ error: err.message });
  }
});
```





Eliminar persona por ID

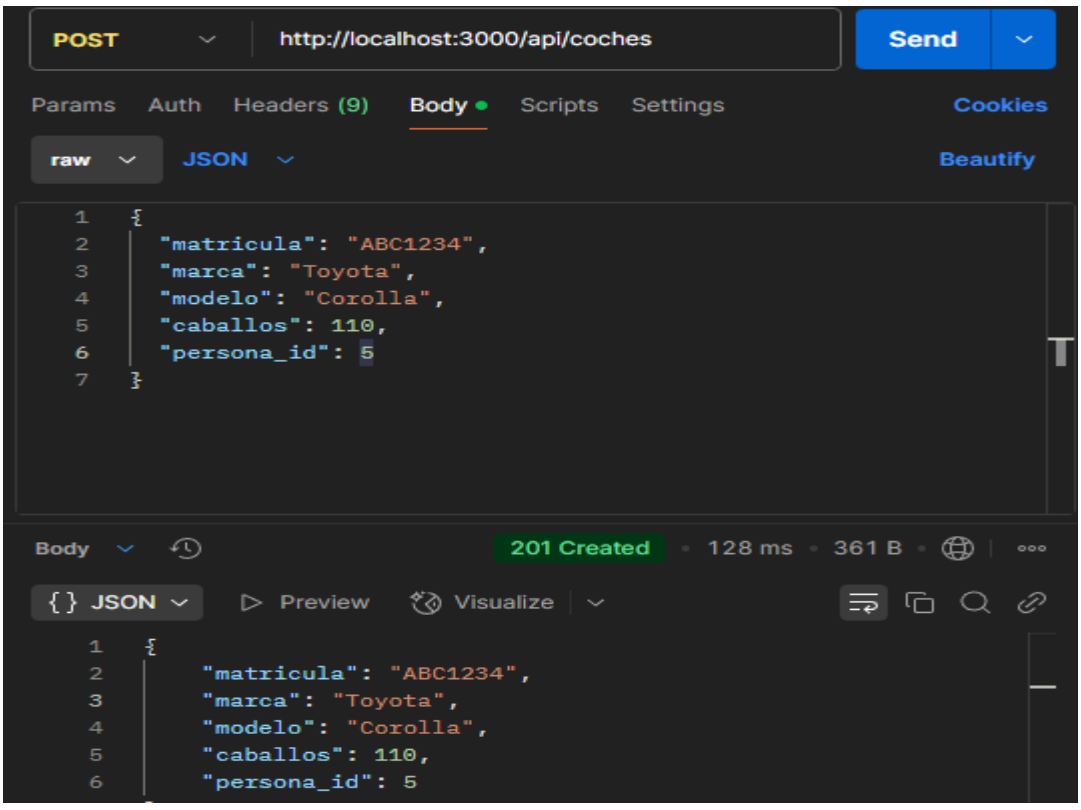
```
app.delete('/api/personas/:id', async (req, res) => {
  const { id } = req.params;

  try {
    // Primero eliminamos los coches relacionados
    await client.query('DELETE FROM Coche WHERE persona_id = $1', [id]);

    // Luego eliminamos la persona
    const result = await client.query('DELETE FROM Persona WHERE id = $1 RETURNING *', [id]);

    if (result.rows.length === 0) {
      return res.status(404).json({ error: 'Persona no encontrada' });
    }
    res.status(200).json({ message: 'Persona eliminada correctamente' });
  } catch (err) {
    res.status(500).json({ error: err.message });
  }
});
```

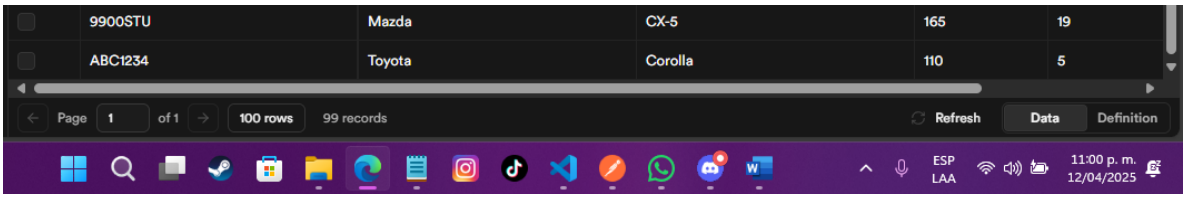


- **Endpoints para coches.**

Agregar coche.

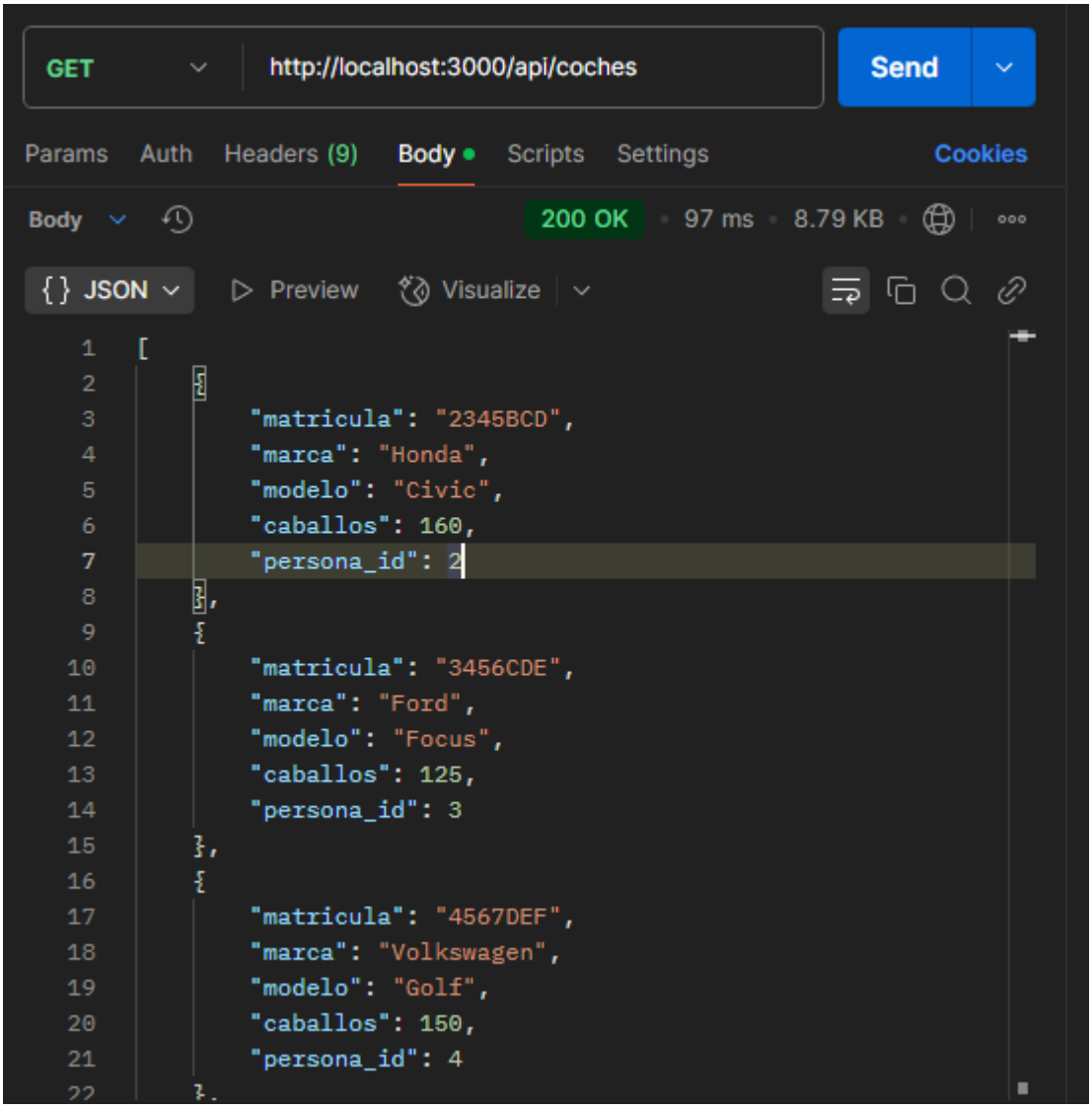
```
app.post('/api/coches', async (req, res) => {
  const { matricula, marca, modelo, caballos, persona_id } = req.body;
  try {
    const result = await client.query(
      'INSERT INTO Coche (matricula, marca, modelo, caballos, persona_id) VALUES ($1, $2, $3, $4, $5) RETURNING *',
      [matricula, marca, modelo, caballos, persona_id]
    );
    res.status(201).json(result.rows[0]);
  } catch (err) {
    res.status(500).json({ error: err.message });
  }
});
```





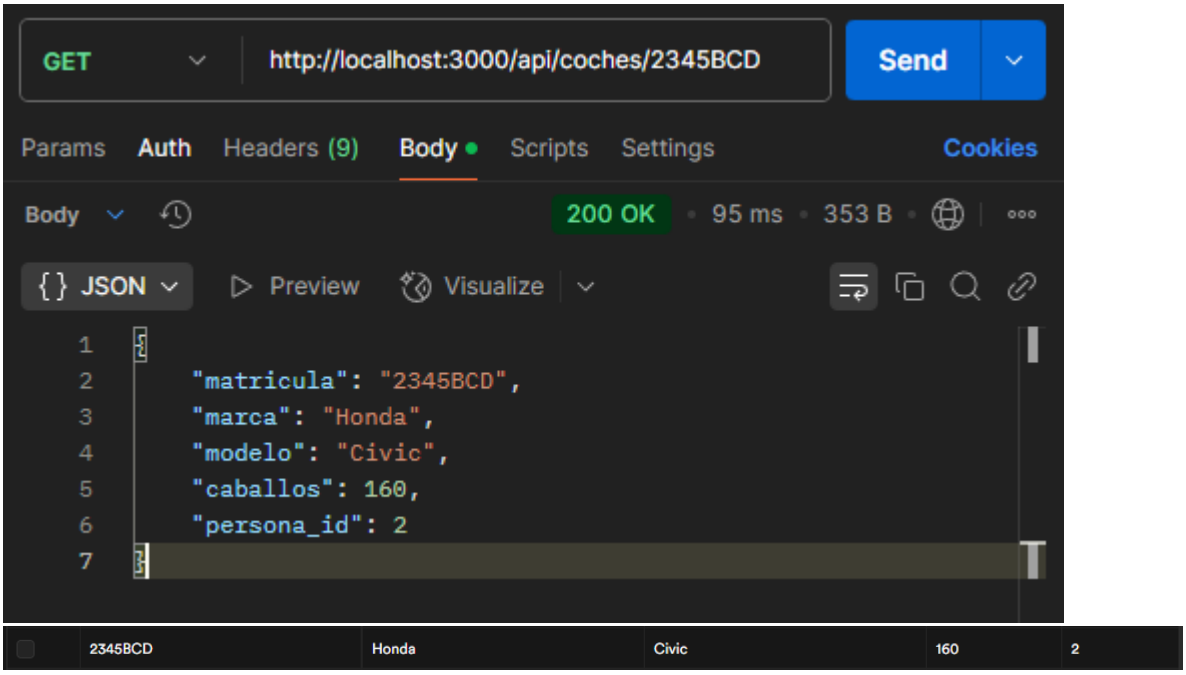
Ver todos los coches.

```
app.get('/api/coches', async (req, res) => {
  try {
    const result = await client.query('SELECT * FROM Coche');
    res.status(200).json(result.rows);
  } catch (err) {
    res.status(500).json({ error: err.message });
  }
});
```



Ver coches por matricula.

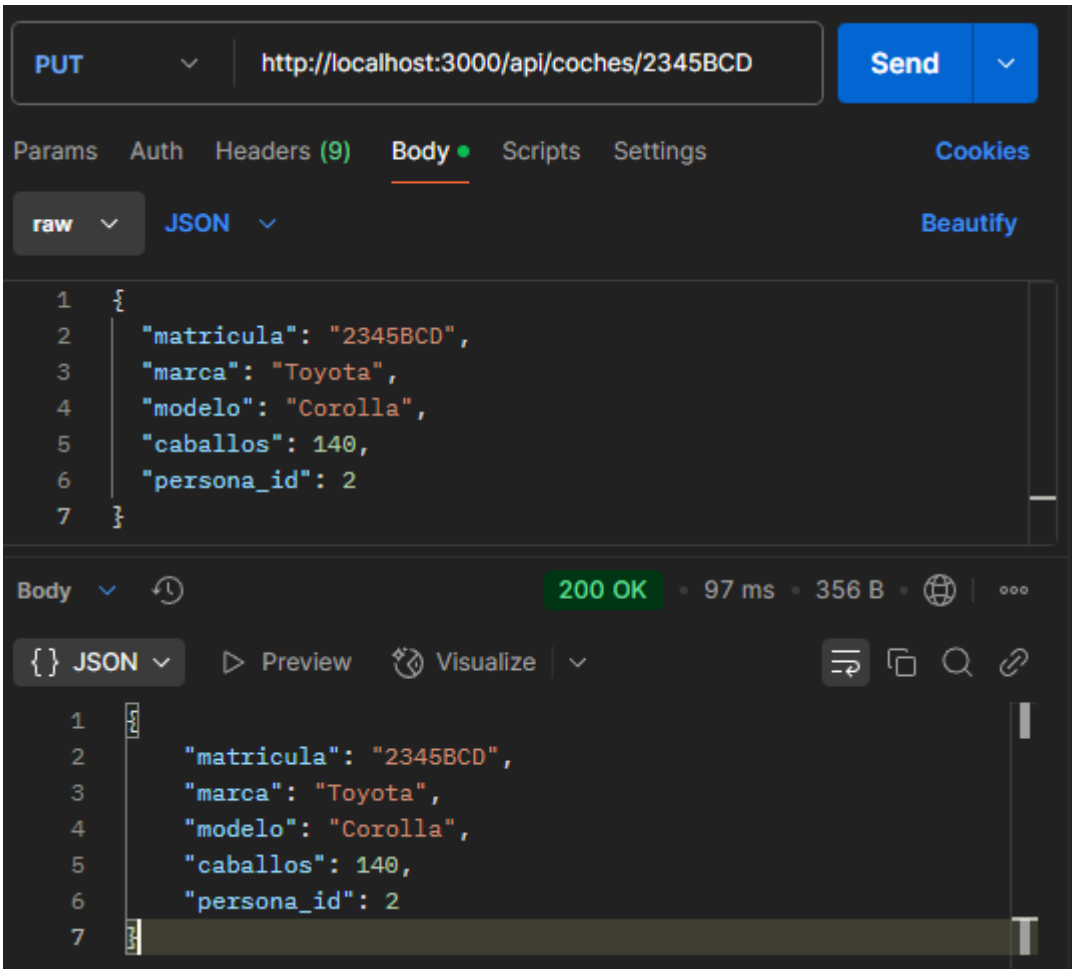
```
app.get('/api/coches/:matricula', async (req, res) => {
  const { matricula } = req.params;
  try {
    const result = await client.query('SELECT * FROM Coche WHERE matricula = $1', [matricula]);
    if (result.rows.length === 0) {
      return res.status(404).json({ error: 'Coche no encontrado' });
    }
    res.status(200).json(result.rows[0]);
  } catch (err) {
    res.status(500).json({ error: err.message });
  }
});
```



	2345BCD	Honda	Civic	160	2

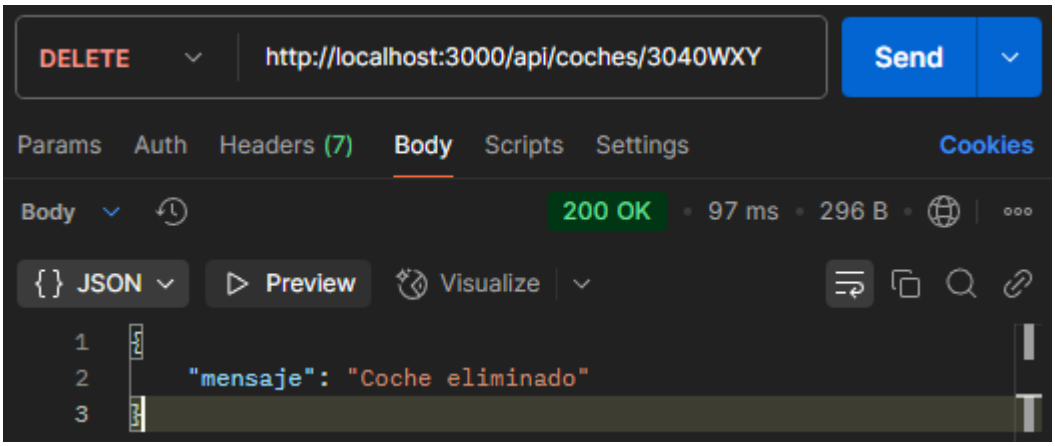
Actualizar coches por matricula.

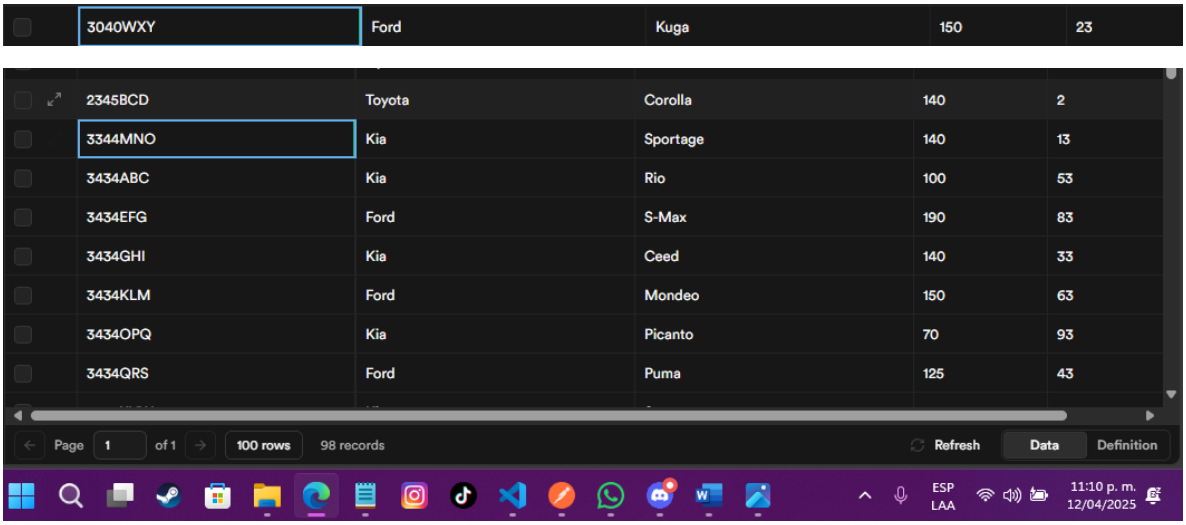
```
app.put('/api/coches/:matricula', async (req, res) => {
  const { matricula } = req.params;
  const { marca, modelo, caballos, persona_id } = req.body;
  try {
    const result = await client.query(
      'UPDATE coche SET marca = $1, modelo = $2, caballos = $3, persona_id = $4 WHERE matricula = $5 RETURNING *',
      [marca, modelo, caballos, persona_id, matricula]
    );
    if (result.rows.length === 0) {
      return res.status(404).json({ error: 'Coche no encontrado' });
    }
    res.status(200).json(result.rows[0]);
  } catch (err) {
    res.status(500).json({ error: err.message });
  }
});
```

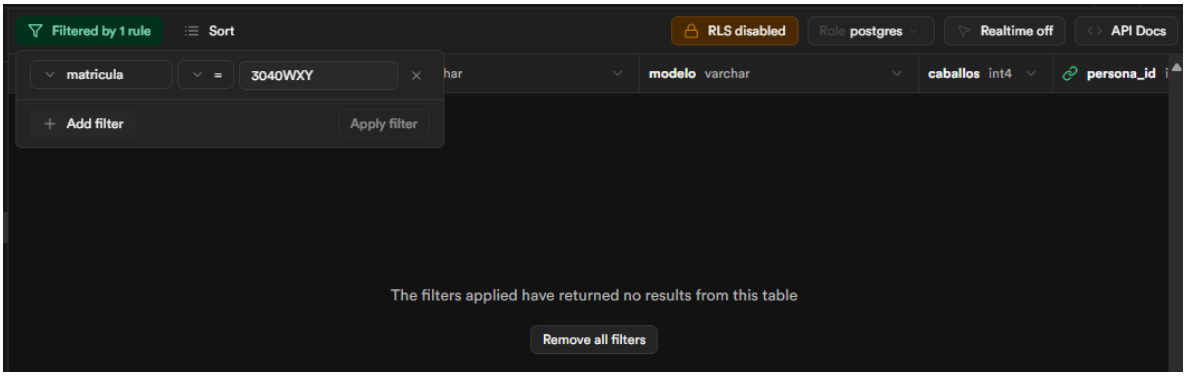


Borrar coches por matricula.

```
app.delete('/api/coches/:matricula', async (req, res) => {
  const { matricula } = req.params;
  try {
    const result = await client.query('DELETE FROM coche WHERE matricula = $1 RETURNING *', [matricula]);
    if (result.rows.length === 0) {
      return res.status(404).json({ error: 'Coche no encontrado' });
    }
    res.status(200).json({ mensaje: 'Coche eliminado' });
  } catch (err) {
    res.status(500).json({ error: err.message });
  }
});
```

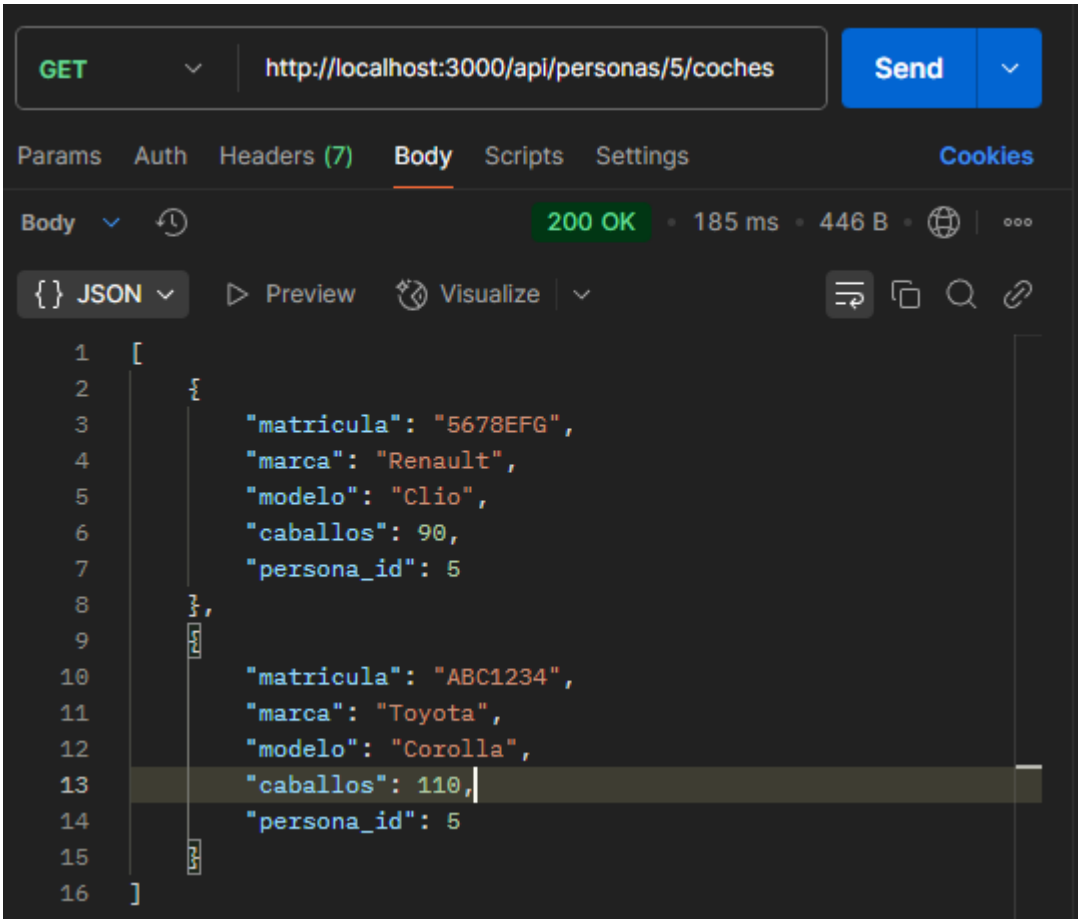


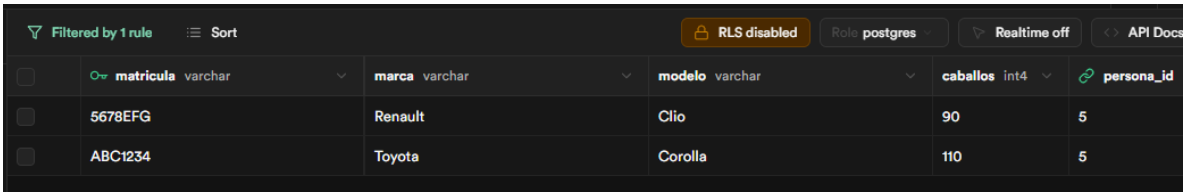




- **Endpoint para obtener los coches de una persona.**

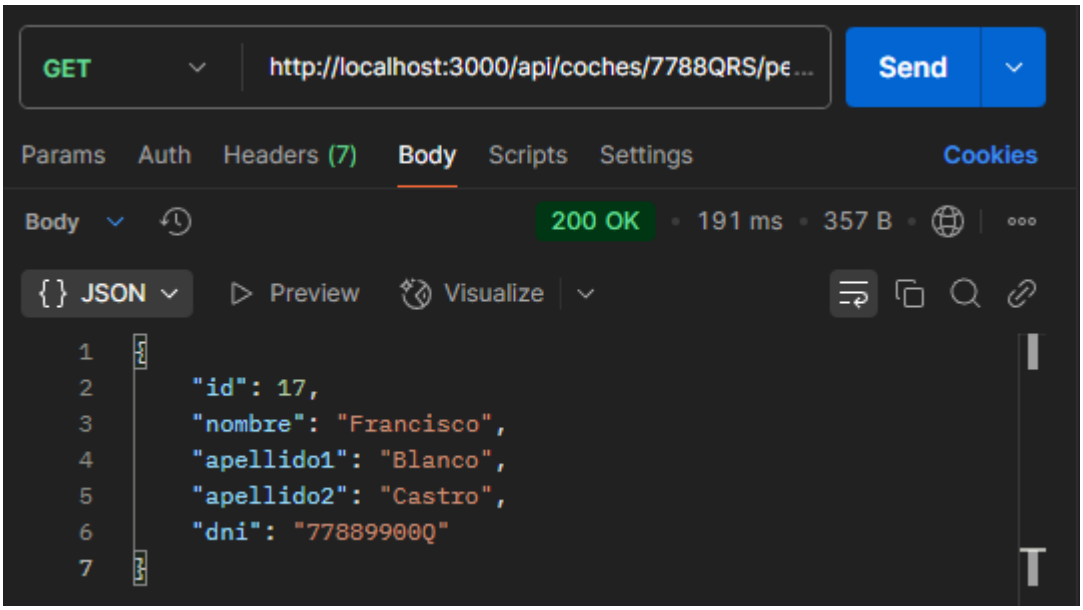
```
app.delete('/api/coches/:matricula', async (req, res) => {
  const { matricula } = req.params;
  try {
    const result = await client.query('DELETE FROM coche WHERE matricula = $1 RETURNING *', [matricula]);
    if (result.rows.length === 0) {
      return res.status(404).json({ error: 'Coche no encontrado' });
    }
    res.status(200).json({ mensaje: 'Coche eliminado' });
  } catch (err) {
    res.status(500).json({ error: err.message });
  }
});
```





- **Endpoint para obtener la persona dueña de un coche.**

```
// Endpoint para obtener la persona dueña de un coche
app.get('/api/coches/:matricula/persona', async (req, res) => {
  const { matricula } = req.params;
  try {
    // Verificar si el coche existe
    const coche = await client.query('SELECT * FROM Coche WHERE matricula = $1', [matricula]);
    if (coche.rows.length === 0) {
      return res.status(404).json({ error: 'Coche no encontrado' });
    }

    const result = await client.query(
      'SELECT p.* FROM Persona p JOIN Coche c ON p.id = c.persona_id WHERE c.matricula = $1',
      [matricula]
    );
    res.status(200).json(result.rows[0]);
  } catch (err) {
    res.status(500).json({ error: err.message });
  }
});
```



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	7878IJK	Seat	Tarraco	190	87
	7878KLM	Skoda	Fabia	110	37
	7878OPQ	Seat	Ateca	150	67
	7878STU	Skoda	Karoq	150	97
	7878UVW	Seat	Arona	115	47

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