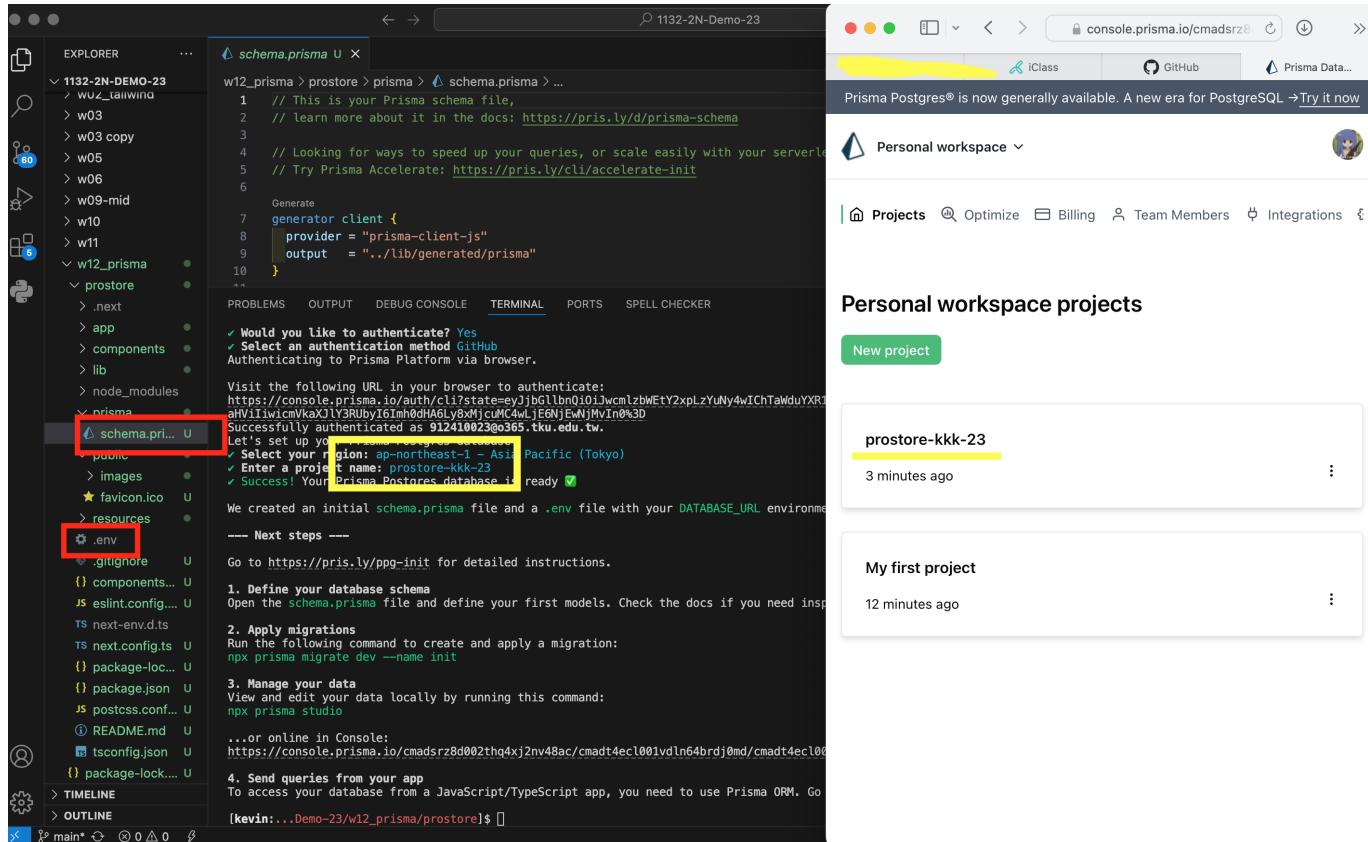


url

vercel

url

W12-p1: npx prisma init --db



W12-p1-1: migration

The screenshot shows the Prisma Data Platform Studio interface. On the left, the Explorer sidebar displays the project structure, including files like `w12.md`, `schema.prisma`, and `migration.sql`. The main area shows the `schema.prisma` file with a yellow box highlighting the `model Product_test` definition:

```

12 datasource db {
13   provider = "postgresql"
14   url      = env("DATABASE_URL")
15 }
16
17 model Product_test {
18   id      String @id @default(dbgenerated("gen_random_uuid"))
19   name    String
20 }

```

The terminal at the bottom shows the command line output of running `npx prisma migrate dev` to apply the migration.

The screenshot shows the Prisma Data Platform Studio interface. The `migration.sql` file is open in the editor, showing the SQL code for creating the `Product_test` table:

```

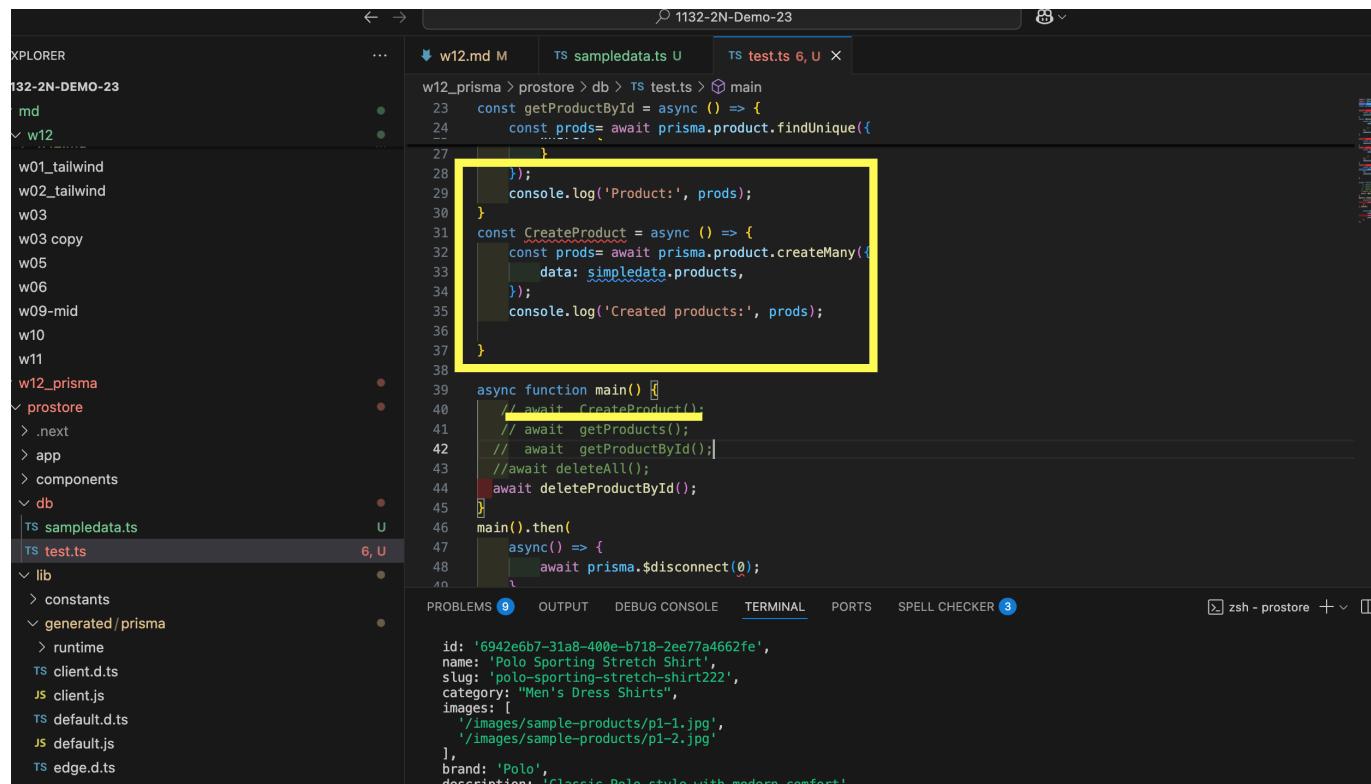
1 -- CreateTable
2 CREATE TABLE "Product_test" (
3   "id" UUID NOT NULL DEFAULT gen_random_uuid(),
4   "name" TEXT NOT NULL,
5
6   CONSTRAINT "Product_test_pkey" PRIMARY KEY ("id")
7 );
8

```

The terminal at the bottom shows the command line output of running `npx prisma migrate dev --name init` to apply the migration.

W12-P2: Do insert, get, delete operations on Product table

=> create data from sample-data.ts



```
w12_prisma > prostore > db > TS test.ts > main
  23  const getProductById = async () => {
  24    const prods= await prisma.product.findUnique({
  25      ...
  26    });
  27    console.log('Product:', prods);
  28  }
  29  const CreateProduct = async () => {
  30    const prods= await prisma.product.createMany({
  31      data: simpledata.products,
  32    });
  33    console.log('Created products:', prods);
  34  }
  35
  36
  37
  38
  39  async function main() {
  40    // await CreateProduct();
  41    // await getProducts();
  42    // await getProductById();
  43    //await deleteAll();
  44    await deleteProductById();
  45  }
  46
  47  main().then(
  48    async() => {
  49      await prisma.$disconnect();
  50    }
  51  )
}
id: '6942e6b7-31a8-400e-b718-2ee77a4662fe',
name: 'Polo Sporting Stretch Shirt',
slug: 'polo-sporting-stretch-shirt222',
category: "Men's Dress Shirts",
images: [
  '/images/sample-products/p1-1.jpg',
  '/images/sample-products/p1-2.jpg'
],
brand: 'Polo',
description: 'Classic Polo style with modern comfort',
```

=> get all products from Product table

The screenshot shows the Prisma Data Platform Studio interface. At the top, there's a navigation bar with icons for iClass, GitHub, Prisma Data Platfo..., Teams and Chann..., and a New Tab button. Below the navigation bar, a banner says "Prisma Postgres® is now generally available. A new era for PostgreSQL → Try it now". The main header includes a profile icon, "Personal workspace", "prostore-kkk-23", and "Development". Below the header, there are navigation links: Dashboard, Studio (which is selected), Accelerate, Database, API Keys, and Settings. The main content area has a title "Studio" and a subtitle "Edit data in your Prisma Postgres® instance without leaving the console.". There's a "Feedback" button. On the left, a sidebar titled "Tables" lists "_prisma_migrations", "Product_test", and "Product". On the right, a form titled "Insert row" is shown with fields for "id" and "banner".

```
w12_prisma > prostroe > db > test.ts > main
23 const getProductById = async () => {
24   const prods= await prisma.product.findUnique({
25     select: {
26       id: true,
27       name: true,
28       price: true,
29       rating: true,
30       numReviews: true,
31       category: true,
32       images: true,
33       brand: true,
34       description: true,
35       stock: true,
36     }
37   })
38
39   const CreateProduct = async () => {
40     const prods= await prisma.product.createMany({
41       data: simpledata.products,
42     })
43     console.log('Created products:', prods);
44   }
45
46   async function main() {
47     // await CreateProduct();
48     // await getProducts();
49     // await getProductById();
50     //await deleteAll();
51     await deleteProductById();
52   }
53
54   main().then(
55     async() => {
56       await prisma.$disconnect();
57     }
58   ).catch(
59     error => {
60       console.error(error);
61     }
62   );
63 }

id: '6942e6b7-31a8-400e-b718-2ee77a4662fe',
name: 'Polo Sporting Stretch Shirt',
slug: 'polo-sporting-stretch-shirt222',
category: 'Men's Dress Shirts',
images: [
  '/images/sample-products/p1-1.jpg',
  '/images/sample-products/p1-2.jpg'
],
brand: 'Polo',
description: 'Classic Polo style with modern comfort',
stock: 5,
price: 159.99,
rating: 4.5,
numReviews: 10,
isFeatured: true,
banner: 'bCCCCCCCCCanner-1.jpg',
createdAt: 2025-05-07T12:21:19.409Z
}

kevin@...:~/Desktop/1132-2N$
```

Studio

Edit data in your Prisma Postgres® instance without leaving the console.

[Feedback](#)

| | id | banner_text |
|--------------------------|----------------------------|-----------------------------|
| <input type="checkbox"/> | 6942e6b7-31a8-400e-b718... | bCCCCCCCCCanner-1... |
| <input type="checkbox"/> | fd499f60-0854-4db7-b8a2... | banner-1.jpg |
| <input type="checkbox"/> | 7a84dfaf-6db9-4bd7-af47... | banner-2.jpg |
| <input type="checkbox"/> | 6ec76fab-b178-40e5-95e2... | NULL |
| <input type="checkbox"/> | 30503843-3e1c-426c-8b74... | NULL |
| <input type="checkbox"/> | 90dbe06f-caac-4945-996c... | NULL |
| <input type="checkbox"/> | 07c59cb4-6d29-41b1-a1c3... | NULL |

=> delete all products from Product table

w12_prisma > prostore > db > TS test.ts > getProductId

```

6 const getProducts = async () => {
7   console.log('Products:', prods);
8
9   const getProductId = async () => {
10     const prods= await prisma.product.findUnique({
11       where: {
12         id: 'c61fff00-af0f-4c00-94b5-70345c7de0c6'
13       }
14     });
15     console.log('Product:', prods);
16   }
17
18   const CreateProduct = async () => {
19     const prods= await prisma.product.createMany({
20       data: simpledata.products,
21     });
22     console.log('Created products:', prods);
23   }
24
25
26   async function main() {
27     // await CreateProduct();
28
29     const getProductId = async () => {
30       const prods= await prisma.product.findUnique({
31         where: {
32           id: 'c61fff00-af0f-4c00-94b5-70345c7de0c6',
33           name: 'Polo Sporting Stretch Shirt',
34           category: "Men's Dress Shirts",
35           images: [
36             '/images/sample-products/p1-1.jpg',
37             '/images/sample-products/p1-2.jpg'
38           ],
39           brand: 'Polo',
40           description: 'Classic Polo style with modern comfort',
41           stock: 5,
42           price: 59.99,
43           rating: 4.5,
44           numReviews: 10,
45           isFeatured: true,
46           banner: 'banner-1.jpg',
47           createdAt: 2025-05-07T12:01:53.791Z
48         }
49       });
50       await getProductId();
51     }
52     main().then(
53       async() => {
54         await prisma.$disconnect();
55       }
56     ).catch(
57       error => {
58         console.error(error);
59       }
60     );
61   }
62
63   sync function main() {
64     // await CreateProduct();
65
66     const getProductId = async () => {
67       const prods= await prisma.product.findUnique({
68         where: {
69           id: 'c61fff00-af0f-4c00-94b5-70345c7de0c6',
70           name: 'Polo Sporting Stretch Shirt',
71           category: "Men's Dress Shirts",
72           images: [
73             '/images/sample-products/p1-1.jpg',
74             '/images/sample-products/p1-2.jpg'
75           ],
76           brand: 'Polo',
77           description: 'Classic Polo style with modern comfort',
78           stock: 5,
79           price: 59.99,
80           rating: 4.5,
81           numReviews: 10,
82           isFeatured: true,
83           banner: 'banner-1.jpg',
84           createdAt: 2025-05-07T12:01:53.791Z
85         }
86       });
87       await getProductId();
88     }
89     main().then(
90       async() => {
91         await prisma.$disconnect();
92       }
93     ).catch(
94       error => {
95         console.error(error);
96       }
97     );
98   }
99
100
101   async function main() {
102     // await CreateProduct();
103
104     const getProductId = async () => {
105       const prods= await prisma.product.findUnique({
106         where: {
107           id: 'c61fff00-af0f-4c00-94b5-70345c7de0c6',
108           name: 'Polo Sporting Stretch Shirt',
109           category: "Men's Dress Shirts",
110           images: [
111             '/images/sample-products/p1-1.jpg',
112             '/images/sample-products/p1-2.jpg'
113           ],
114           brand: 'Polo',
115           description: 'Classic Polo style with modern comfort',
116           stock: 5,
117           price: 59.99,
118           rating: 4.5,
119           numReviews: 10,
120           isFeatured: true,
121           banner: 'banner-1.jpg',
122           createdAt: 2025-05-07T12:01:53.791Z
123         }
124       });
125       await getProductId();
126     }
127     main().then(
128       async() => {
129         await prisma.$disconnect();
130       }
131     ).catch(
132       error => {
133         console.error(error);
134       }
135     );
136   }
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138   sync function main() {
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144           id: 'c61fff00-af0f-4c00-94b5-70345c7de0c6',
145           name: 'Polo Sporting Stretch Shirt',
146           category: "Men's Dress Shirts",
147           images: [
148             '/images/sample-products/p1-1.jpg',
149             '/images/sample-products/p1-2.jpg'
150           ],
151           brand: 'Polo',
152           description: 'Classic Polo style with modern comfort',
153           stock: 5,
154           price: 59.99,
155           rating: 4.5,
156           numReviews: 10,
157           isFeatured: true,
158           banner: 'banner-1.jpg',
159           createdAt: 2025-05-07T12:01:53.791Z
160         }
161       });
162       await getProductId();
163     }
164     main().then(
165       async() => {
166         await prisma.$disconnect();
167       }
168     ).catch(
169       error => {
170         console.error(error);
171       }
172     );
173   }
174
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179       const prods= await prisma.product.findUnique({
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181           id: 'c61fff00-af0f-4c00-94b5-70345c7de0c6',
182           name: 'Polo Sporting Stretch Shirt',
183           category: "Men's Dress Shirts",
184           images: [
185             '/images/sample-products/p1-1.jpg',
186             '/images/sample-products/p1-2.jpg'
187           ],
188           brand: 'Polo',
189           description: 'Classic Polo style with modern comfort',
190           stock: 5,
191           price: 59.99,
192           rating: 4.5,
193           numReviews: 10,
194           isFeatured: true,
195           banner: 'banner-1.jpg',
196           createdAt: 2025-05-07T12:01:53.791Z
197         }
198       });
199       await getProductId();
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202       async() => {
203         await prisma.$disconnect();
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205     ).catch(
206       error => {
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221           images: [
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223             '/images/sample-products/p1-2.jpg'
224           ],
225           brand: 'Polo',
226           description: 'Classic Polo style with modern comfort',
227           stock: 5,
228           price: 59.99,
229           rating: 4.5,
230           numReviews: 10,
231           isFeatured: true,
232           banner: 'banner-1.jpg',
233           createdAt: 2025-05-07T12:01:53.791Z
234         }
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258           images: [
259             '/images/sample-products/p1-1.jpg',
260             '/images/sample-products/p1-2.jpg'
261           ],
262           brand: 'Polo',
263           description: 'Classic Polo style with modern comfort',
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265           price: 59.99,
266           rating: 4.5,
267           numReviews: 10,
268           isFeatured: true,
269           banner: 'banner-1.jpg',
270           createdAt: 2025-05-07T12:01:53.791Z
271         }
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277         await prisma.$disconnect();
278       }
279     ).catch(
280       error => {
281         console.error(error);
282       }
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284   }
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293           name: 'Polo Sporting Stretch Shirt',
294           category: "Men's Dress Shirts",
295           images: [
296             '/images/sample-products/p1-1.jpg',
297             '/images/sample-products/p1-2.jpg'
298           ],
299           brand: 'Polo',
300           description: 'Classic Polo style with modern comfort',
301           stock: 5,
302           price: 59.99,
303           rating: 4.5,
304           numReviews: 10,
305           isFeatured: true,
306           banner: 'banner-1.jpg',
307           createdAt: 2025-05-07T12:01:53.791Z
308         }
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316     ).catch(
317       error => {
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330           name: 'Polo Sporting Stretch Shirt',
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332           images: [
333             '/images/sample-products/p1-1.jpg',
334             '/images/sample-products/p1-2.jpg'
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336           brand: 'Polo',
337           description: 'Classic Polo style with modern comfort',
338           stock: 5,
339           price: 59.99,
340           rating: 4.5,
341           numReviews: 10,
342           isFeatured: true,
343           banner: 'banner-1.jpg',
344           createdAt: 2025-05-07T12:01:53.791Z
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367           name: 'Polo Sporting Stretch Shirt',
368           category: "Men's Dress Shirts",
369           images: [
370             '/images/sample-products/p1-1.jpg',
371             '/images/sample-products/p1-2.jpg'
372           ],
373           brand: 'Polo',
374           description: 'Classic Polo style with modern comfort',
375           stock: 5,
376           price: 59.99,
377           rating: 4.5,
378           numReviews: 10,
379           isFeatured: true,
380           banner: 'banner-1.jpg',
381           createdAt: 2025-05-07T12:01:53.791Z
382         }
383       });
384       await getProductId();
385     }
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387       async() => {
388         await prisma.$disconnect();
389       }
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401       const prods= await prisma.product.findUnique({
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404           name: 'Polo Sporting Stretch Shirt',
405           category: "Men's Dress Shirts",
406           images: [
407             '/images/sample-products/p1-1.jpg',
408             '/images/sample-products/p1-2.jpg'
409           ],
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411           description: 'Classic Polo style with modern comfort',
412           stock: 5,
413           price: 59.99,
414           rating: 4.5,
415           numReviews: 10,
416           isFeatured: true,
417           banner: 'banner-1.jpg',
418           createdAt: 2025-05-07T12:01:53.791Z
419         }
420       });
421       await getProductId();
422     }
423     main().then(
424       async() => {
425         await prisma.$disconnect();
426       }
427     ).catch(
428       error => {
429         console.error(error);
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441           name: 'Polo Sporting Stretch Shirt',
442           category: "Men's Dress Shirts",
443           images: [
444             '/images/sample-products/p1-1.jpg',
445             '/images/sample-products/p1-2.jpg'
446           ],
447           brand: 'Polo',
448           description: 'Classic Polo style with modern comfort',
449           stock: 5,
450           price: 59.99,
451           rating: 4.5,
452           numReviews: 10,
453           isFeatured: true,
454           banner: 'banner-1.jpg',
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456         }
457       });
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478           name: 'Polo Sporting Stretch Shirt',
479           category: "Men's Dress Shirts",
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484           brand: 'Polo',
485           description: 'Classic Polo style with modern comfort',
486           stock: 5,
487           price: 59.99,
488           rating: 4.5,
489           numReviews: 10,
490           isFeatured: true,
491           banner: 'banner-1.jpg',
492           createdAt: 2025-05-07T12:01:53.791Z
493         }
494       });
495       await getProductId();
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497     main().then(
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499         await prisma.$disconnect();
500       }
501     ).catch(
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518             '/images/sample-products/p1-1.jpg',
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520           ],
521           brand: 'Polo',
522           description: 'Classic Polo style with modern comfort',
523           stock: 5,
524           price: 59.99,
525           rating: 4.5,
526           numReviews: 10,
527           isFeatured: true,
528           banner: 'banner-1.jpg',
529           createdAt: 2025-05-07T12:01:53.791Z
530         }
531       });
532       await getProductId();
533     }
534     main().then(
535       async() => {
536         await prisma.$disconnect();
537       }
538     ).catch(
539       error => {
540         console.error(error);
541       }
542     );
543   }
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545   sync function main() {
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548     const getProductId = async () => {
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552           name: 'Polo Sporting Stretch Shirt',
553           category: "Men's Dress Shirts",
554           images: [
555             '/images/sample-products/p1-1.jpg',
556             '/images/sample-products/p1-2.jpg'
557           ],
558           brand: 'Polo',
559           description: 'Classic Polo style with modern comfort',
560           stock: 5,
561           price: 59.99,
562           rating: 4.5,
563           numReviews: 10,
564           isFeatured: true,
565           banner: 'banner-1.jpg',
566           createdAt: 2025-05-07T12:01:53.791Z
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572       async() => {
573         await prisma.$disconnect();
574       }
575     ).catch(
576       error => {
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579     );
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591           images: [
592             '/images/sample-products/p1-1.jpg',
593             '/images/sample-products/p1-2.jpg'
594           ],
595           brand: 'Polo',
596           description: 'Classic Polo style with modern comfort',
597           stock: 5,
598           price: 59.99,
599           rating: 4.5,
600           numReviews: 10,
601           isFeatured: true,
602           banner: 'banner-1.jpg',
603           createdAt: 2025-05-07T12:01:53.791Z
604         }
605       });
606       await getProductId();
607     }
608     main().then(
609       async() => {
610         await prisma.$disconnect();
611       }
612     ).catch(
613       error => {
614         console.error(error);
615       }
616     );
617   }
618
619   sync function main() {
620     // await CreateProduct();
621
622     const getProductId = async () => {
623       const prods= await prisma.product.findUnique({
624         where: {
625           id: 'c61fff00-af0f-4c00-94b5-70345c7de0c6',
626           name: 'Polo Sporting Stretch Shirt',
627           category: "Men's Dress Shirts",
628           images: [
629             '/images/sample-products/p1-1.jpg',
630             '/images/sample-products/p1-2.jpg'
631           ],
632           brand: 'Polo',
633           description: 'Classic Polo style with modern comfort',
634           stock: 5,
635           price: 59.99,
636           rating: 4.5,
637           numReviews: 10,
638           isFeatured: true,
639           banner: 'banner-1.jpg',
640           createdAt: 2025-05-07T12:01:53.791Z
641         }
642       });
643       await getProductId();
644     }
645     main().then(
646       async() => {
647         await prisma.$disconnect();
648       }
649     ).catch(
650       error => {
651         console.error(error);
652       }
653     );
654   }
655
656   sync function main() {
657     // await CreateProduct();
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659     const getProductId = async () => {
660       const prods= await prisma.product.findUnique({
661         where: {
662           id: 'c61fff00-af0f-4c00-94b5-70345c7de0c6',
663           name: 'Polo Sporting Stretch Shirt',
664           category: "Men's Dress Shirts",
665           images: [
666             '/images/sample-products/p1-1.jpg',
667             '/images/sample-products/p1-2.jpg'
668           ],
669           brand: 'Polo',
670           description: 'Classic Polo style with modern comfort',
671           stock: 5,
672           price: 59.99,
673           rating: 4.5,
674           numReviews: 10,
675           isFeatured: true,
676           banner: 'banner-1.jpg',
677           createdAt: 2025-05-07T12:01:53.791Z
678         }
679       });
680       await getProductId();
681     }
682     main().then(
683       async() => {
684         await prisma.$disconnect();
685       }
686     ).catch(
687       error => {
688         console.error(error);
689       }
690     );
691   }
692
693   sync function main() {
694     // await CreateProduct();
695
696     const getProductId = async () => {
697       const prods= await prisma.product.findUnique({
698         where: {
699           id: 'c61fff00-af0f-4c00-94b5-70345c7de0c6',
700           name: 'Polo Sporting Stretch Shirt',
701           category: "Men's Dress Shirts",
702           images: [
703             '/images/sample-products/p1-1.jpg',
704             '/images/sample-products/p1-2.jpg'
705           ],
706           brand: 'Polo',
707           description: 'Classic Polo style with modern comfort',
708           stock: 5,
709           price: 59.99,
710           rating: 4.5,
711           numReviews: 10,
712           isFeatured: true,
713           banner: 'banner-1.jpg',
714           createdAt: 2025-05-07T12:01:53.791Z
715         }
716       });
717       await getProductId();
718     }
719     main().then(
720       async() => {
721         await prisma.$disconnect();
722       }
723     ).catch(
724       error => {
725         console.error(error);
726       }
727     );
728   }
729
730   sync function main() {
731     // await CreateProduct();
732
733     const getProductId = async () => {
734       const prods= await prisma.product.findUnique({
735         where: {
736           id: 'c61fff00-af0f-4c00-94b5-70345c7de0c6',
737           name: 'Polo Sporting Stretch Shirt',
738           category: "Men's Dress Shirts",
739           images: [
740             '/images/sample-products/p1-1.jpg',
741             '/images/sample-products/p1-2.jpg'
742           ],
743           brand: 'Polo',
744           description: 'Classic Polo style with modern comfort',
745           stock: 5,
746           price: 59.99,
747           rating: 4.5,
748           numReviews: 10,
749           isFeatured: true,
750           banner: 'banner-1.jpg',
751           createdAt: 2025-05-07T12:01:53.791Z
752         }
753       });
754       await getProductId();
755     }
756     main().then(
757       async() => {
758         await prisma.$disconnect();
759       }
760     ).catch(
761       error => {
762         console.error(error);
763       }
764     );
765   }
766
767   sync function main() {
768     // await CreateProduct();
769
770     const getProductId = async () => {
771       const prods= await prisma.product.findUnique({
772         where: {
773           id: 'c61fff00-af0f-4c00-94b5-70345c7de0c6',
774           name: 'Polo Sporting Stretch Shirt',
775           category: "Men's Dress Shirts",
776           images: [
777             '/images/sample-products/p1-1.jpg',
778             '/images/sample-products/p1-2.jpg'
779           ],
780           brand: 'Polo',
781           description: 'Classic Polo style with modern comfort',
782           stock: 5,
783           price: 59.99,
784           rating: 4.5,
785           numReviews: 10,
786           isFeatured: true,
787           banner: 'banner-1.jpg',
788           createdAt: 2025-05-07T12:01:53.791Z
789         }
790       });
791       await getProductId();
792     }
793     main().then(
794       async() => {
795         await prisma.$disconnect();
796       }
797     ).catch(
798       error => {
799         console.error(error);
800       }
801     );
802   }
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808       const prods= await prisma.product.findUnique({
809         where: {
810           id: 'c61fff00-af0f-4c00-94b5-70345c7de0c6',
811           name: 'Polo Sporting Stretch Shirt',
812           category: "Men's Dress Shirts",
813           images: [
814             '/images/sample-products/p1-1.jpg',
815             '/images/sample-products/p1-2.jpg'
816           ],
817           brand: 'Polo',
818           description: 'Classic Polo style with modern comfort',
819           stock: 5,
820           price: 59.99,
821           rating: 4.5,
822           numReviews: 10,
823           isFeatured: true,
824           banner: 'banner-1.jpg',
825           createdAt: 2025-05-07T12:01:53.791Z
826         }
827       });
828       await getProductId();
829     }
830     main().then(
831       async() => {
832         await prisma.$disconnect();
833       }
834     ).catch(
835       error => {
836         console.error(error);
837       }
838     );
839   }
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843
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845       const prods= await prisma.product.findUnique({
846         where: {
847           id: 'c61fff00-af0f-4c00-94b5-70345c7de0c6',
848           name: 'Polo Sporting Stretch Shirt',
849           category: "Men's Dress Shirts",
850           images: [
851             '/images/sample-products/p1-1.jpg',
852             '/images/sample-products/p1-2.jpg'
853           ],
854           brand: 'Polo',
855           description: 'Classic Polo style with modern comfort',
856           stock: 5,
857           price: 59.99,
858           rating: 4.5,
859           numReviews: 10,
860           isFeatured: true,
861           banner: 'banner-1.jpg',
862           createdAt: 2025-05-07T12:01:53.791Z
863         }
864       });
865       await getProductId();
866     }
867     main().then(
868       async() => {
869         await prisma.$disconnect();
870       }
871     ).catch(
872       error => {
873         console.error(error);
874       }
875     );
876   }
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883         where: {
884           id: 'c61fff00-af0f-4c00-94b5-70345c7de0c6',
885           name: 'Polo Sporting Stretch Shirt',
886           category: "Men's Dress Shirts",
887           images: [
888             '/images/sample-products/p1-1.jpg',
889             '/images/sample-products/p1-2.jpg'
890           ],
891           brand: 'Polo',
892           description: 'Classic Polo style with modern comfort',
893           stock: 5,
894           price: 59.99,
895           rating: 4.5,
896           numReviews: 10,
897           isFeatured: true,
898           banner: 'banner-1.jpg',
899           createdAt: 2025-05-07T12:01:53.791Z
900         }
901       });
902       await getProductId();
903     }
904     main().then(
905       async() => {
906         await prisma.$disconnect();
907       }
908     ).catch(
909       error => {
910         console.error(error);
911       }
912     );
913   }
914
915   sync function main() {
916     // await CreateProduct();
917
918     const getProductId = async () => {
919       const prods= await prisma.product.findUnique({
920         where: {
921           id: 'c61fff00-af0f-4c00-94b5-70345c7de0c6',
922           name: 'Polo Sporting Stretch Shirt',
923           category: "Men's Dress Shirts",
924           images: [
925             '/images/sample-products/p1-1.jpg',
926             '/images/sample-products/p1-2.jpg'
927           ],
928           brand: 'Polo',
929           description: 'Classic Polo style with modern comfort',
930           stock: 5,
931           price: 59.99,
932           rating: 4.5,
933           numReviews: 10,
934           isFeatured: true,
935           banner: 'banner-1.jpg',
936           createdAt: 2025-05-07T12:01:53.791Z
937         }
938       });
939       await getProductId();
940     }
941     main().then(
942       async() => {
943         await prisma.$disconnect();
944       }
945     ).catch(
946       error => {
947         console.error(error);
948       }
949     );
950   }
951
952   sync function main() {
953     // await CreateProduct();
954
955     const getProductId = async () => {
956       const prods= await prisma.product.findUnique({
957         where: {
958           id: 'c61fff00-af0f-4c00-94b5-70345c7de0c6',
959           name: 'Polo Sporting Stretch Shirt',
960           category: "Men's Dress Shirts",
961           images: [
962             '/images/sample-products/p1-1.jpg',
963             '/images/sample-products/p1-2.jpg'
964           ],
965           brand: 'Polo',
966           description: 'Classic Polo style with modern comfort',
967           stock: 5,
968           price: 59.99,
969           rating: 4.5,
970           numReviews: 10,
971           isFeatured: true,
972           banner: 'banner-1.jpg',
973           createdAt: 2025-05-07T12:01:53.791Z
974         }
975       });
976       await getProductId();
977     }
978     main().then(
979       async() => {
980         await prisma.$disconnect();
981       }
982     ).catch(
983       error => {
984         console.error(error);
985       }
986     );
987   }
988
989   sync function main() {
990     // await CreateProduct();
991
992     const getProductId = async () => {
993       const prods= await prisma.product.findUnique({
994         where: {
995           id: 'c61fff00-af0f-4c00-94b5-70345c7de0c6',
996           name: 'Polo Sporting Stretch Shirt',
997           category: "Men's Dress Shirts",
998           images: [
999             '/images/sample-products/p1-1.jpg',
1000             '/images/sample-products/p1-2.jpg'
1001           ],
1002           brand: 'Polo',
1003           description: 'Classic Polo style with modern comfort',
1004           stock: 5,
1005           price: 59.99,
1006           rating: 4.5,
1007           numReviews: 10,
1008           isFeatured: true,
1009           banner: 'banner-1.jpg',
1010           createdAt: 2025-05-07T12:01:53.791Z
1011         }
1012       });
1013       await getProductId();
1014     }
1015     main().then(
1016       async() => {
1017         await prisma.$disconnect();
1018       }
1019     ).catch(
1020       error => {
1021         console.error(error);
1022       }
1023     );
1024   }
1025
1026   sync function main() {
1027     // await CreateProduct();
1028
1029     const getProductId = async () => {
1030       const prods= await prisma.product.findUnique({
1031         where: {
1032           id: 'c61fff00-af0f-4c00-94b5-70345c7de0c6',
1033           name: 'Polo Sporting Stretch Shirt',
1034           category: "Men's Dress Shirts",
1035           images: [
1036             '/images/sample-products/p1-1.jpg',
1037             '/images/sample-products/p1-2.jpg'
1038           ],
1039           brand: 'Polo',
1040           description: 'Classic Polo style with modern comfort',
1041           stock: 5,
1042           price: 59.99,
1043           rating: 4.5,
1044           numReviews: 10,
1045           isFeatured: true,
1046           banner: 'banner-1.jpg',
1047           createdAt: 2025-05-07T12:01:53.791Z
1048         }
1049       });
1050       await getProductId();
1051     }
1052     main().then(
1053       async() => {
1054         await prisma.$disconnect();
1055       }
1056     ).catch(
1057       error => {
1058         console.error(error);
1059       }
1060     );
106
```

The screenshot shows the Prisma Studio interface. On the left is the Explorer sidebar with project files like `w12_prisma`, `prostore`, `db`, and `test.ts`. The main area has tabs for `w12.md`, `schema.prisma`, and `sampledata.ts`. The `test.ts` tab contains code for interacting with a PostgreSQL database using Prisma Client. The right side features a "Tables" section with a "Product" table and an "Insert row" button. The "Product" table has columns `id`, `banner_text`, and several rows of sample data.

```

const getProductsById = async () => {
  const prods = await prisma.product.findUnique({
    select: {
      id: true,
      name: true,
      slug: true,
      category: true,
      images: true,
      brand: true,
      description: true,
      stock: true,
      price: true,
      rating: true,
      numReviews: true,
      isFeatured: true,
      banner: true,
      createdAt: true
    }
  })
  console.log('Product:', prods)
}

const CreateProduct = async () => {
  const prods = await prisma.product.createMany({
    data: simpledata.products,
  })
  console.log('Created products:', prods)
}

async function main() {
  // await CreateProduct();
  // await getProducts();
  // await getProductId();
  // await deleteAll();
  await deleteProductById();
}

main().then(
  async() => {
    await prisma.$disconnect();
  }
).catch(error => {
  console.error(error)
})

```

| | <code>id</code> | <code>banner_text</code> |
|---|----------------------------|--------------------------|
| 1 | fd499f60-0854-4db7-b8a2... | banner-1.jpg |
| 2 | 7a84dfaf-6db9-4bd7-af47... | banner-2.jpg |
| 3 | 6ec76fab-b178-40e5-95e2... | NULL |
| 4 | 30503843-3e1c-426c-8b74... | NULL |
| 5 | 90dbe06f-caac-4945-996c... | NULL |
| 6 | 07c59cb4-6d29-41b1-a1c3... | NULL |

W12-P3:

=> get all products

The screenshot shows the VS Code interface. The Explorer sidebar includes `w12_prisma`, `prostore`, `db`, and `test.ts`. The `test.ts` file contains code for querying products. The terminal shows the command `npx tsx ./db/test.ts` being run, and the output displays the results of the query. The status bar at the bottom indicates the code is at line 23, column 1.

```

import {PrismaClient} from '@lib/generated/prisma';
import simpledata from './sampledata';
const prisma = new PrismaClient().$extends(withAccelerate());

const getProductsByPlainSQL = async () => {
  const prods = await prisma.$queryRaw`SELECT * FROM "Product"`;
  console.log('Products:', prods);
}

getProductsByPlainSQL();

```

Products:

```

Products: [
  {
    id: 'fd499f60-0854-4db7-b8a2-9ebba21cad6c',
    name: 'Polo Sporting Stretch Shirt',
    slug: 'polo-sporting-stretch-shirt',
    category: "Men's Dress Shirts",
    images: [
      '/images/sample-products/p1-1.jpg',
      '/images/sample-products/p1-2.jpg'
    ],
    brand: 'Polo',
    description: 'Classic Polo style with modern comfort',
    stock: 5,
    price: 159.99,
    rating: 4.5,
    numReviews: 10,
    isFeatured: true,
    banner: 'bCCCCCCCCCanner-1.jpg',
    createdAt: 2025-05-07T12:21:19.409Z
  },
  {
    id: '7a84dfaf-6db9-4bd7-af47-5c69e99329a9',
    name: 'Brooks Brothers Long Sleeved Shirt',
    slug: 'brooks-brothers-long-sleeved-shirt',
    category: "Men's Dress Shirts",
    images: [
      '/images/sample-products/p2-1.jpg',
      '/images/sample-products/p2-2.jpg'
    ],
    brand: 'Brooks Brothers',
    description: 'Timeless style and premium comfort',
    stock: 10,
    price: 85.9,
    rating: 4.2,
    numReviews: 8,
    isFeatured: true,
    banner: 'banner-2.jpg',
    createdAt: 2025-05-07T12:21:19.409Z
  }
]

```

=> get products with brand 'Polo'

The screenshot shows a browser window with the URL `localhost:5555`. On the left, the Explorer sidebar shows a project structure with files like `test.ts`, `sampledata.ts`, and `client.d.ts`. The main area contains a code editor with the following TypeScript code:

```

    9 }
10
11 const getProductsByPlainSQL2 = async (brand:any) => {
12     const prods = await prisma.$queryRaw`SELECT * FROM "Product"
13
14     console.log('Products:', prods);
15 }

```

Below the code editor is a terminal tab and a spell checker tab. To the right, there's a search bar for models and a table viewer titled "All Models". The table has columns for "id" and "name". It displays four rows of product data:

| | <code>id</code> | <code>name</code> |
|--|--------------------------|--------------------------|
| | 07c59cb4-6d29-41b1-a1... | Polo Classic Pink Hoodie |
| | 90dbe06f-caac-4945-99... | Polo Ralph Lauren Oxford |
| | fd499f60-0854-4db7-b8... | Polo Sporting Stretch... |

=> show how to use `$queryRaw(query)`

The screenshot shows a browser window with the URL `localhost:5555`. The code editor now includes a new section of code:

```

    6 const getProductsByPlainSQL = async () => {
8     console.log('Products:', prods);
9 }
10
11 const getProductsByPlainSQL2 = async (brand:any) => {
12     const prods = await prisma.$queryRaw`SELECT * FROM "Product"
13
14     console.log('Products:', prods);
15 }
16 const getProductsByPlainSQL3 = async (brand:any) => {
17     let query=Prisma.sql`SELECT * FROM "Product" WHERE "brand"=
18
19     const prods = await prisma.$queryRaw(query);
20
21     console.log('Products:', prods);
22 }
23
24 const deleteAll = async () => {

```

The rest of the code remains the same as the previous screenshot. The data viewer on the right shows the same four products.

git log

| | | |
|---------------|-------------------------------|--------------|
| 97fa24b 05235 | Wed May 7 21:00:11 2025 +0800 | week12 p3 |
| 0b4a4f2 05235 | Wed May 7 19:09:41 2025 +0800 | week12 p1-p2 |