

all prisma commands with examples

Sure! Prisma is a popular Node.js ORM (Object-Relational Mapping) tool that helps you interact with databases using a type-safe API. Prisma has a **CLI** (`prisma`) with multiple commands for different tasks: database schema management, migrations, generating client code, and more. I'll provide a **full list of Prisma commands with examples**.

1. `prisma init`

Initializes a new Prisma project.

Example:

bash

```
npx prisma init
```

 Copy code

This creates:

- `prisma/schema.prisma` – The database schema
 - `.env` – Environment variables for database connection
-

2. `prisma generate`

Generates the Prisma Client based on your schema.

Example:

bash

```
npx prisma generate
```

 Copy code

This must be run whenever you update `schema.prisma`.

3. `prisma migrate`

Manages database migrations. It has several subcommands:

a) `prisma migrate dev`

Applies migrations in development and updates the database.

Example:

bash

```
npx prisma migrate dev --name init
```

 Copy code

b) `prisma migrate deploy`

Applies all pending migrations in production.

Example:

bash

```
npx prisma migrate deploy
```

 Copy code

c) prisma migrate reset

Resets the database (drops all data, re-applies migrations).

Example:

bash

```
npx prisma migrate reset
```

 Copy code

d) prisma migrate status

Shows the status of migrations.

Example:

bash

```
npx prisma migrate status
```

 Copy code

4. prisma db

Handles database-related tasks. Subcommands:

a) prisma db pull

Introspects your database and updates `schema.prisma`.

Example:

bash

`npx prisma db pull` Copy code**b) prisma db push**

Pushes the schema changes to the database **without a migration**.

Example:

bash

`npx prisma db push` Copy code**c) prisma db seed**

Runs your seed script (defined in `package.json` or `prisma/seed.ts`).

Example:

bash

`npx prisma db seed` Copy code

5. prisma studio

Opens a GUI to view and edit your database.

Example:

bash

```
npx prisma studio
```

 Copy code

6. prisma validate

Validates your `schema.prisma` file.

Example:

bash

```
npx prisma validate
```

 Copy code

7. prisma format

Formats the `schema.prisma` file according to Prisma conventions.

Example:

bash

```
npx prisma format
```

 Copy code

8. prisma version

Displays the installed Prisma CLI and client versions.

Example:

bash

```
npx prisma version
```

 Copy code

9. prisma migrate vs db push

- Use **migrate** if you want **versioned migrations** (recommended for production).
- Use **db push** if you want **quick schema changes** without migration history (good for dev/testing).

10. Using Prisma Client in Code

After `prisma generate`, you can use Prisma Client like this:

ts

```
import { PrismaClient } from "@prisma/client";

const prisma = new PrismaClient();

async function main() {
  const users = await prisma.user.findMany();
  console.log(users);
```

```
}
```

```
main()
  .catch(e => console.error(e))
  .finally(async () => await prisma.$disconnect());
```

 Copy code

💡 Quick command cheat sheet:

Command	Description
<code>prisma init</code>	Initialize project
<code>prisma generate</code>	Generate Prisma client
<code>prisma migrate dev</code>	Apply dev migrations
<code>prisma migrate deploy</code>	Apply prod migrations
<code>prisma migrate reset</code>	Reset database
<code>prisma migrate status</code>	Show migration status
<code>prisma db pull</code>	Introspect DB
<code>prisma db push</code>	Push schema to DB
<code>prisma db seed</code>	Run seed script
<code>prisma studio</code>	GUI for DB

Command	Description
prisma validate	Validate schema
prisma format	Format schema
prisma version	Show version

If you want, I can also make a **visual diagram showing the workflow of all Prisma commands** so you can see how `db push`, `migrate`, and `generate relate`. It's a huge time-saver for remembering what does what.

Do you want me to make that diagram?



am talking of funtions such as `create()`

Ah! Now I understand — you're asking about **Prisma Client methods** like `create()`, `findMany()`, etc., not the CLI commands. These are the **functions you use in your code** to interact with the database. I'll give a **full overview with examples** for each main method.

1. `create()`

Creates a new record in the database.

ts

```
const newUser = await prisma.user.create({
  data: {
    name: "Alice",
    email: "alice@example.com",
    age: 25,
  },
});
console.log(newUser);
```

 Copy code

2. createMany()

Creates multiple records at once.

ts

```
const users = await prisma.user.createMany({
  data: [
    { name: "Bob", email: "bob@example.com", age: 30 },
    { name: "Charlie", email: "charlie@example.com", age: 28 },
  ],
});
console.log(users); // { count: 2 }
```

 Copy code

3. `findMany()`

Fetches multiple records, optionally with filters.

ts

```
const users = await prisma.user.findMany({
  where: { age: { gt: 20 } }, // users older than 20
  orderBy: { age: "desc" }, // sort by age descending
  take: 5, // limit to 5 users
});
console.log(users);
```

 Copy code

4. `findUnique()`

Fetches a single record by a unique field (like `id` or `email`).

ts

```
const user = await prisma.user.findUnique({
  where: { email: "alice@example.com" },
});
console.log(user);
```

 Copy code

 Use `findUniqueOrThrow()` if you want it to throw an error when not found.

ts

```
const user = await prisma.user.findUniqueOrThrow({
  where: { id: 1 },
});
```

```
});
```

 Copy code

5. `findFirst()`

Fetches the first record matching a filter.

ts

```
const user = await prisma.user.findFirst({  
    where: { age: { gte: 18 } },  
    orderBy: { name: "asc" },  
});
```

 Copy code

6. `update()`

Updates a single record identified by a unique field.

ts

```
const updatedUser = await prisma.user.update({  
    where: { email: "alice@example.com" },  
    data: { age: 26 },  
});  
console.log(updatedUser);
```

 Copy code

7. `updateMany()`

Updates multiple records at once.

ts

```
const result = await prisma.user.updateMany({  
  where: { age: { lt: 30 } },  
  data: { isActive: true },  
});  
console.log(result); // { count: X }
```

 Copy code

8. upsert()

Creates a record if it doesn't exist, or updates it if it does.

ts

```
const user = await prisma.user.upsert({  
  where: { email: "alice@example.com" },  
  update: { age: 27 },  
  create: { name: "Alice", email: "alice@example.com", age: 27 },  
});
```

 Copy code

9. delete()

Deletes a single record by unique field.

ts

```
const deletedUser = await prisma.user.delete({  
    where: { email: "alice@example.com" },  
});  
console.log(deletedUser);
```

 Copy code

10. deleteMany()

Deletes multiple records at once.

ts

```
const result = await prisma.user.deleteMany({  
    where: { age: { lt: 18 } },  
});  
console.log(result); // { count: X }
```

 Copy code

11. count()

Counts records matching a filter.

ts

```
const totalUsers = await prisma.user.count({  
    where: { isActive: true },  
});  
console.log(totalUsers);
```

 Copy code

12. aggregate()

Performs aggregations like min, max, avg, sum.

ts

```
const stats = await prisma.user.aggregate({
  _avg: { age: true },
  _max: { age: true },
  _min: { age: true },
});
console.log(stats);
```

 Copy code

13. groupBy()

Groups records by a field and applies aggregates.

ts

```
const result = await prisma.user.groupBy({
  by: ["isActive"],
  _count: { id: true },
  _avg: { age: true },
});
console.log(result);
```

 Copy code



Quick Cheat Sheet of Prisma Client Functions

Function	Purpose
create()	Insert one record
createMany()	Insert multiple records
findMany()	Get multiple records
findUnique()	Get a single record by unique key
findFirst()	Get first matching record
update()	Update one record
updateMany()	Update multiple records

Find data if exists, else create



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deleteMany()	Delete multiple records
count()	Count matching records
aggregate()	Aggregate data (sum, avg, min, max)
groupBy()	Group records and aggregate

If you want, I can make a diagram showing all Prisma Client methods visually, including which ones are for **single records vs multiple records**, which makes it super easy to remember.

Do you want me to make that?



which website can i get more information

For official and detailed information about Prisma, the **best resource is the Prisma documentation website**. It's very well organized, includes examples for every method, and has guides for beginners and advanced users. Here are the main links:

1. Prisma Official Docs

- **Website:** <https://www.prisma.io/docs> ↗
 - Covers everything: setup, schema, client methods (`create()` , `findMany()` , etc.), migrations, relations, and more.
-

2. Prisma Client API Reference

- **Website:** <https://www.prisma.io/docs/reference/api-reference/prisma-client> ↗
 - Direct reference for all Prisma Client methods with full examples.
-

3. Prisma Examples

- Website: <https://www.prisma.io/docs/guides> ↗
 - Guides and practical examples for real-world use cases: CRUD, authentication, relations, aggregation, and more.
-

4. GitHub Repository

- Website: <https://github.com/prisma/prisma> ↗
 - For source code, issues, and community discussions.
-

 **Tip:** If you're learning Prisma Client functions like `create()`, `findMany()`, `update()`, the **Client API Reference** link above is the most direct resource—it lists every function with syntax and examples.

If you want, I can **make a shortcut list of links for all the Prisma Client functions** so you can jump directly to each one. It's like a cheat sheet with live docs links.

Do you want me to do that?

