

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
```

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b) prisma migrate deploy

Applies all pending migrations in production.

Example:

```
bash
```

```
npx prisma migrate deploy
```

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c) prisma migrate reset

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

Example:

```
bash
```

```
npx prisma migrate reset
```

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d) prisma migrate status

Shows the status of migrations.

Example:

```
bash
```

```
npx prisma migrate status
```

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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
<code>prisma validate</code>	Validate schema
<code>prisma format</code>	Format schema
<code>prisma version</code>	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

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
updateOrCreate()	Update if exists, else create
delete()	Delete one record
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.
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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.
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4. GitHub Repository

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

