Початок

```
PS C:\Users\Марія\Documents\GitHub\BDLabs\lab 6> npx prisma db pull
Loaded Prisma config from prisma.config.ts.

Prisma schema loaded from prisma\schema.prisma
Datasource "db": PostgreSQL database "5lab", schema "public" at "localhost:5432"

✓ Introspected 10 models and wrote them into prisma\schema.prisma in 149ms

*** WARNING ***

These constraints are not supported by Prisma Client, because Prisma currently does not fully support check constraints. Read more: https://pris.ly/d/check-constraints
  - Model: "cartitems", constraint: "cartitems_quantity_check"

Run prisma generate to generate Prisma Client.
```

Перша міграція. Видалення стовпчиків (drop_columns)

```
model review {
  review_id      Int       @id @default(autoincrement())
  review_text    String
  rating         Int
  date_creation  DateTime @db.Timestamp(6)
  redaction_time DateTime @db.Timestamp(6)
  user_id        Int
  product_id     Int
  product        product   @relation(fields: [product_id], references: [product_id], onDelete: Cascade, onUpdate: NoAction)
  users          users     @relation(fields: [user_id], references: [user_id], onDelete: Cascade, onUpdate: NoAction)
}

model users {
  user_id      Int       @id @default(autoincrement())
  name         String    @db.VarChar(50)
  surname      String    @db.VarChar(50)
  email        String    @unique @db.VarChar(254)
  phone_number String?   @unique @db.VarChar(13)
  address      String    @db.VarChar(255)
  region       String    @db.VarChar(100)
  cart         cart[]
  review       review[]
}
```

```
model cart {
  cart_id   Int        @id @default(autoincrement())
  user_id   Int
  users     users      @relation(fields: [user_id], references: [user_id], onDelete: Cascade, onUpdate: NoAction)
  cartitems cartitems[]
  orders    orders[]
}
```

```
PS C:\Users\Марія\Documents\GitHub\BDLabs\lab 6> npx prisma migrate dev --name drop-columns
Loaded Prisma config from prisma.config.ts.

Prisma schema loaded from prisma\schema.prisma
Datasource "db": PostgreSQL database "5lab", schema "public" at "localhost:5432"

Applying migration `20251208225228_drop_columns`

Loaded Prisma config from prisma.config.ts.

Prisma schema loaded from prisma\schema.prisma
Datasource "db": PostgreSQL database "5lab", schema "public" at "localhost:5432"

Applying migration `20251208225228_drop_columns`

The following migration(s) have been created and applied from new schema changes:

prisma\migrations/
Applying migration `20251208225228_drop_columns`

The following migration(s) have been created and applied from new schema changes:

prisma\migrations/
The following migration(s) have been created and applied from new schema changes:

prisma\migrations/
  └─ 20251208225228_drop_columns/
    └─ migration.sql
prisma\migrations/
  └─ 20251208225228_drop_columns/
```

```prisma
model review {
  review_id     Int      @id @default(autoincrement())
  review_text   String
  rating        Int
  date_creation DateTime @db.Timestamp(6)
  redaction_time DateTime @db.Timestamp(6)
  user_id       Int
  product_id    Int
  product       product  @relation(fields: [product_id], references: [product_id], onDelete: Cascade, onUpdate: NoAction)
}

model users {
  user_id      Int     @id @default(autoincrement())
  name         String  @db.VarChar(50)
  surname      String  @db.VarChar(50)
  email        String  @unique @db.VarChar(254)
  phone_number String? @unique @db.VarChar(13)
  address      String  @db.VarChar(255)
  region       String  @db.VarChar(100)
}
```

```prisma
model cart {
  cart_id   Int          @id @default(autoincrement())
  user_id   Int
  cartitems cartitems[]
  orders    orders[]
}
```

Друга міграція. Створення таблички (ordered_items)

```
model ordered_item {
  ordered_id    Int      @id @default(autoincrement())
  order_id      Int
  product_id    Int
  quantity      Int
  price_in_order  Decimal

  order    orders  @relation(fields: [order_id], references: [order_id], onDelete: Cascade, onUpdate: NoAction)
  product       product  @relation(fields: [product_id], references: [product_id], onDelete: Cascade, onUpdate: NoAction)
}
```

```
PS C:\Users\Марія\Documents\GitHub\BDLabs\lab 6> npx prisma migrate dev --name ordereditems-table
Loaded Prisma config from prisma.config.ts.

Prisma schema loaded from prisma\schema.prisma
Datasource "db": PostgreSQL database "5lab", schema "public" at "localhost:5432"

Applying migration `20251208231421_ordereditems_table`

The following migration(s) have been created and applied from new schema changes:

prisma\migrations/
  └─ 20251208231421_ordereditems_table/
    └─ migration.sql

Your database is now in sync with your schema.
```

```
-- CreateTable
CREATE TABLE "ordered_item" (
    "ordered_id" SERIAL NOT NULL,
    "order_id" INTEGER NOT NULL,
    "product_id" INTEGER NOT NULL,
    "quantity" INTEGER NOT NULL,
    "price_in_order" DECIMAL(65,30) NOT NULL,

    CONSTRAINT "ordered_item_pkey" PRIMARY KEY ("ordered_id")
);

-- AddForeignKey
ALTER TABLE "ordered_item" ADD CONSTRAINT "ordered_item_order_id_fkey" FOREIGN KEY ("order_id") REFERENCES "orders"("order_id") ON DELETE CASCADE ON U

-- AddForeignKey
ALTER TABLE "ordered_item" ADD CONSTRAINT "ordered_item_product_id_fkey" FOREIGN KEY ("product_id") REFERENCES "product"("product_id") ON DELETE CASC
```

Третя міграція. Перейменування (ordered_id на ordered_object_id)

```
model ordered_item {
  ordered_object_id Int  @id @default(autoincrement())
  order_id        Int
  product_id      Int
  quantity        Int
  price_in_order  Decimal

  order    orders  @relation(fields: [order_id], references: [order_id], onDelete: Cascade, onUpdate: NoAction)
  product       product  @relation(fields: [product_id], references: [product_id], onDelete: Cascade, onUpdate: NoAction)
}
```

```
PS C:\Users\Марія\Documents\GitHub\BDLabs\lab 6> npx prisma migrate dev --name orderobjid-add
Loaded Prisma config from prisma.config.ts.

Prisma schema loaded from prisma\schema.prisma
Datasource "db": PostgreSQL database "5lab", schema "public" at "localhost:5432"

Applying migration `20251208232015_orderobjid_add`

The following migration(s) have been created and applied from new schema changes:

prisma\migrations/
  └─ 20251208232015_orderobjid_add/
     └─ migration.sql

Your database is now in sync with your schema.
```

```sql
1   /*
2     Warnings:
3
4     - The primary key for the `ordered_item` table will be changed. If it partially fails, the table could be left without primary key constraint.
5     - You are about to drop the column `ordered_id` on the `ordered_item` table. All the data in the column will be lost.
6
7   */
8   -- AlterTable
9   ALTER TABLE "ordered_item" DROP CONSTRAINT "ordered_item_pkey",
10  DROP COLUMN "ordered_id",
11  ADD COLUMN     "ordered_object_id" SERIAL NOT NULL,
12  ADD CONSTRAINT "ordered_item_pkey" PRIMARY KEY ("ordered_object_id");
13
```

Перевірка через npx prisma studio