

CMPE487

INTERNET PROGRAMMING PROJECT

PHASE II REPORT

CRAWLBUDS PETSHOP

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1. Database Tables

In this section of the report 9 tables created for the project will be examined in detail. Explanation, fields of the table (columns) and dummy data added versions will be shown.

1.1 Admins Table

1.1.1 Explanation

The admins table contains all of the administrative user accounts for the CrawlBuds PetShop system. These individuals are responsible for managing important back-office functions such as maintaining the product catalog, creating and updating coupons, and monitoring and updating customer orders.

Each row represents a single administrator account and includes the admin's login credentials, password, email address, authorization role, and the account creation timestamp.

This table is also indirectly mentioned in other features. For example, the coupons.created_by_admin_id field contains the ID of the administrator who created the coupon. In this way, administrators enable accountability and auditing for sensitive operations.

#		Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
<input type="checkbox"/>	1	<code>id</code> 	int		UNSIGNED	Hayır	Yok		AUTO_INCREMENT	 Değiştir  Kaldır Daha fazla
<input type="checkbox"/>	2	<code>full_name</code>	varchar(50)	<code>utf8mb4_0900_ai_ci</code>		Hayır	Yok		 Değiştir  Kaldır Daha fazla	
<input type="checkbox"/>	3	<code>email</code> 	varchar(100)	<code>utf8mb4_0900_ai_ci</code>		Hayır	Yok		 Değiştir  Kaldır Daha fazla	
<input type="checkbox"/>	4	<code>password</code>	varchar(255)	<code>utf8mb4_0900_ai_ci</code>		Hayır	Yok		 Değiştir  Kaldır Daha fazla	
<input type="checkbox"/>	5	<code>role</code>	varchar(50)	<code>utf8mb4_0900_ai_ci</code>		Hayır	Yok		 Değiştir  Kaldır Daha fazla	
<input type="checkbox"/>	6	<code>created_at</code>	timestamp			Hayır	<code>CURRENT_TIMESTAMP</code>		DEFAULT_GENERATED  Değiştir  Kaldır Daha fazla	

İndeksler									
Eylem	Anahtar adı	Türü	Benzersiz	Paketlendi	Sütun	Önemlilik	Karşılaştırma	Boş	Açıklama
Düzenle Yeniden adlandır Kaldır	PRIMARY	BTREE	Evet		Hayır	id	2	A	Hayır
Düzenle Yeniden adlandır Kaldır	email	BTREE	Evet		Hayır	email	2	A	Hayır

Figure 1.1.1.1. Admins Table Structure

1.1.2 Fields

- **id:** Unsigned integer, auto-incremented primary key. This field uniquely identifies each admin account and is used as a reference from other tables as foreign key; for example, from coupons.created_by_admin_id.
- **full_name:** VARCHAR(50), not null. Stores the full name of the admin, which is displayed in admin interface and logs.
- **email:** VARCHAR(100), not null and defined as a UNIQUE index. This is the admin's email for logging in. It has to be unique; therefore, there cannot be two different administrators using the same email address.
- **password:** VARCHAR(255), not null. Stores the password strings hashed, used for authentication. Length 255 is a choice password hashing algorithms.
- **role:** VARCHAR(50), not null. This describes the role or permission level of the admin; for example, SUPER_ADMIN, ORDER_MANAGER. It restricts the actions of the users respective of this column.
- **created_at:** TIMESTAMP, default value CURRENT_TIMESTAMP. Automatically stores the date and time when the admin account was created, will be used later for tracking.

1.1.3 Sample Data Display from Browse

The screenshot shows a MySQL Workbench browser window. At the top, there is a SQL query editor with the following code:

```
SELECT * FROM `admins`
```

Below the query editor is a toolbar with the following buttons:

- Profil çikart [Satır içi düzenle] [Düzenle] [SQL'i açıka] [PHP kodu oluştur] [Yenile]

The main area displays the table structure and data. The table has the following columns:

	Id	full_name	email	password	role	created_at
<input type="checkbox"/>	1	System Admin	admin@example.com	admin	SUPER_ADMIN	2025-11-30 14:22:20
<input type="checkbox"/>	2	Order Manager	orders@example.com	manager	ORDER_MANAGER	2025-11-30 14:22:20

At the bottom of the table area, there are additional buttons:

- Tümünü işaretle
- Seçilileri: Düzenle Kopyala Sil
- Dışa aktar

Figure 1.1.3.1 Admins Table Example

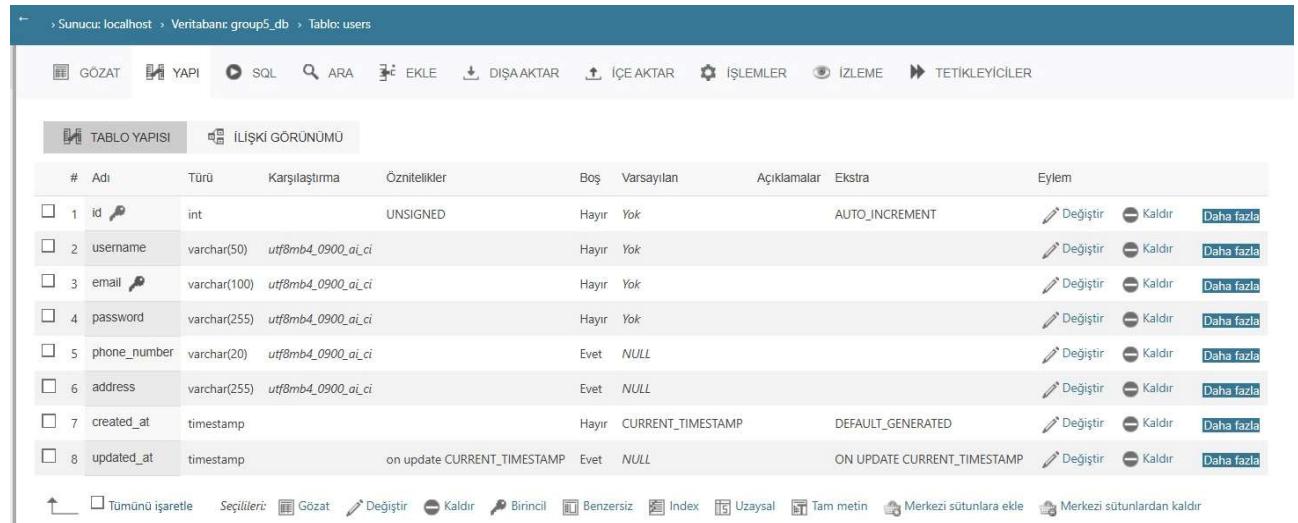
1.2 Users Table

1.2.1 Explanation

The users table serves as the central storage for the registered customers of the system, when managing the users of the CrawlBuds PetShop. Each row in this table is essentially a separate customer who can sign in, add items to their shopping cart and submit orders.

The table contains the basic identity and contact information of each user, such as username, email, phone number, and address, plus the hashed password and timestamps. Tables like shopping_carts and orders use the user_id value as a foreign key to ensure that each cart and each order is linked to a valid user account.

1.2.2 Fields



The screenshot shows the MySQL Workbench interface with the 'users' table selected. The top navigation bar includes buttons for GÖZAT (View), YAPI (API), SQL, ARA (Search), EKLE (Add), DIŞA AKTAR (Export), İÇE AKTAR (Import), İŞLEMLER (Operations), İZLEME (Monitoring), TETİKLEYİCİLER (Triggers), and a Daha fazla (More) button. Below the navigation is a toolbar with icons for Gözat (View), Değiştir (Change), Kaldır (Delete), Birincil (Primary Key), Benzersiz (Unique), Index (Index), Uzaysal (Spatial), Tam metin (Full-text), Merkezi sütunlara ekle (Add to primary key), and Merkezi sütunlardan kaldır (Remove from primary key). The main area displays the table structure:

#	Adı	Türü	Karşılaştırma	Öznitelikler	Bos	Varsayılan	Açıklamalar	Ekstra	Eylem
<input type="checkbox"/>	1 id	int		UNSIGNED		Hayır	Yok		AUTO_INCREMENT Değiştir Kaldır Daha fazla
<input type="checkbox"/>	2 username	varchar(50)	utf8mb4_0900_ai_ci			Hayır	Yok		Değiştir Kaldır Daha fazla
<input type="checkbox"/>	3 email	varchar(100)	utf8mb4_0900_ai_ci			Hayır	Yok		Değiştir Kaldır Daha fazla
<input type="checkbox"/>	4 password	varchar(255)	utf8mb4_0900_ai_ci			Hayır	Yok		Değiştir Kaldır Daha fazla
<input type="checkbox"/>	5 phone_number	varchar(20)	utf8mb4_0900_ai_ci		Evet	NULL			Değiştir Kaldır Daha fazla
<input type="checkbox"/>	6 address	varchar(255)	utf8mb4_0900_ai_ci		Evet	NULL			Değiştir Kaldır Daha fazla
<input type="checkbox"/>	7 created_at	timestamp				Hayır	CURRENT_TIMESTAMP	DEFAULT_GENERATED	Değiştir Kaldır Daha fazla
<input type="checkbox"/>	8 updated_at	timestamp		on update CURRENT_TIMESTAMP	Evet	NULL		ON UPDATE CURRENT_TIMESTAMP	Değiştir Kaldır Daha fazla

At the bottom of the interface, there are buttons for 'Tümünü işaretle' (Select all), 'Seçilileri' (Selected), 'Gözat' (View), 'Değiştir' (Change), 'Kaldır' (Delete), 'Birincil' (Primary Key), 'Benzersiz' (Unique), 'Index' (Index), 'Uzaysal' (Spatial), 'Tam metin' (Full-text), 'Merkezi sütunlara ekle' (Add to primary key), and 'Merkezi sütunlardan kaldır' (Remove from primary key).

Figure 1.2.2.1: Users Table Structure

- **id:** Unsigned integer, auto-incremented primary key. This field gives each user a unique ID in the system. Other tables, such as orders and shopping carts, use this ID to link to the user.
- **username:** VARCHAR(50), not null. This is the customer's nickname, which appears in the user interface.
- **email:** VARCHAR(100), not null, defined as a UNIQUE index. Email address used for login and notifications. The unique constraint prevents two users from registering with the same email.

- password: VARCHAR(255), not null. Stores the hashed password string used during authentication. A length of 255 is enough for common hashing algorithms.
- phone_number: VARCHAR(20), nullable. Optional contact phone number of the customer.
- address: VARCHAR(255), nullable. Default shipping or billing address of the user. This value is reused on the checkout page but can be edited there.
- created_at: TIMESTAMP, default CURRENT_TIMESTAMP. The date and time when the user account was created.
- updated_at: TIMESTAMP, with ON UPDATE CURRENT_TIMESTAMP. Automatically updated when the user changes profile information. This is helpful for auditing and debugging.

1.2.3 Sample Data Display from Browse

The screenshot shows a phpMyAdmin interface with the following details:

- SQL Query:** SELECT * FROM `users`
- Toolbar Buttons:** Profil, Kart, Satır içi düzenle, Düzenle, SQL'i açıkla, PHP kodu oluştur, Yenile.
- Filter Options:** Tümünü göster, Satır sayısı: 25, Satırları süz: Bu tabloda ara, Ar.
- Table Headers:** id, username, email, password, phone_number, address, created_at, updated_at.
- Table Data:**

	Düzenle	Kopyala	Sil	id	username	email	password	phone_number	address	created_at	updated_at
<input type="checkbox"/>				1	Hasan Tezcan	hasan@example.com	12345	905551112233	Istanbul, Turkey	2025-11-30 14:22:20	2025-11-30 14:35:18
<input type="checkbox"/>				2	Ayse Yilmaz	ayse@example.com	abcd	905552223344	Kadikoy, Istanbul	2025-11-30 14:22:20	2025-11-30 14:35:22
<input type="checkbox"/>				3	Mehmet Demir	mehmet@example.com	hasantezcan123	905553334455	Besiktas, Istanbul	2025-11-30 14:22:20	2025-11-30 14:35:24
<input type="checkbox"/>				4	Sezai Araplarlı	sezai@example.com	sezo123	905551112233	Istanbul, Turkey	2025-12-01 09:26:26	NULL

Figure 1.2.3.1: Users Table Examples

On a phpMyAdmin browse screen, you could be seeing four sample users. Each of these has realistic phone numbers, Turkish addresses and automatically created, accurate timestamps, and are used in the testing of login, order creation and registration.

1.3 Categories Table

1.3.1 Explanation

In order to make it simpler for developers and users to search and locate products, this table was made to classify products according to their group. Administrators and customers can browse products more easily by using categories to group similar products, such as dog food, cat toys, or accessories.

Every product stored in the products table refers to a category through the category_id field, ensuring that every product is a member of a significant logical group.

#	Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
1	id 	int		UNSIGNED	Hayır	Yok		AUTO_INCREMENT	 Değiştir  Kaldır  Daha fazla
2	name 	varchar(50)	utf8mb4_0900_ai_ci		Hayır	Yok			 Değiştir  Kaldır  Daha fazla
3	description	varchar(255)	utf8mb4_0900_ai_ci		Evet	NULL			 Değiştir  Kaldır  Daha fazla

 Tümünü işaretle Seçilileri:  Gözat  Değiştir  Kaldır  Birincil  Benzersiz  Index  Uzaysal  Tam metin  Merkezi sütunla

 Yazdır  Tabloyu izle  Sütunları taşı  Normalleştir

 1 sütun ekle description sonrasında   Git

İndeksler 

Eylem	Anahtar adı	Türü	Benzersiz	Paketlendi	Sütun	Önemlilik	Karşılaştırma	Boş	Açıklama
 Düzenle  Yeniden adlandır  Kaldır PRIMARY BTREE Evet Hayır id 3 A Hayır									
 Düzenle  Yeniden adlandır  Kaldır name BTREE Evet Hayır name 3 A Hayır									

Figure 1.3.1.1. Categories Table Structure

1.3.2 Fields

- **id** is an auto-incrementing, unsigned integer primary key. This serves as a category's unique identifier.
- **name**: VARCHAR(50), defined as a UNIQUE index and not null. This is the category name that appears in the user interface and is readable by humans shown possibly in dropdown. Two categories with the same name cannot be created because of this particular constraint.

- **description:** nullable, VARCHAR(255). This is an optional description of the products that fall under this category. It is mostly utilized in help texts or admin views.

1.3.3 Sample Data Display from Browse

The current database contains three sample categories:

- Category with id = 1, name “Dog Food”, described as “Dry and wet dog food products.”
- Category with id = 2, name “Cat Toys”, described as “Toys and accessories for cats”.
- Category with id = 3, name “Accessories”, described as “Leashes, collars, and other accessories.”

These are categories that many products in the system refer to, and they are the foundation of the main navigation menu in the interface of the web pet shop.

	<input type="button" value="←"/>	<input type="button" value="→"/>			<input type="button" value="id"/>	<input type="button" value="name"/>	<input type="button" value="description"/>
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1 Dog Food Dry and wet dog food products
<input type="checkbox"/>		Düzenle		Kopyala		Sil	2 Cat Toys Toys and accessories for cats
<input type="checkbox"/>		Düzenle		Kopyala		Sil	3 Accessories Leashes, collars, and other accessories

Figure 1.3.3.1 Categories Table Example

1.4 Coupons Table

1.4.1 Explanation

The coupons table controls all of the discount codes. These codes can be used during the checkout process. The public coupon code, the discount amount, the order minimum requirements, validity dates, usage restrictions, the current usage count, an active flag, and a brief text description are all stored.

To identify which admin created each coupon, the table also has a foreign key called `created_by_admin_id` that points to the `admins` table. This encourages marketing initiatives to be traceable and accountable.

During the checkout process, the application queries this table to verify a coupon and determine the appropriate discount to apply to an order.

#	Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
1	<code>id</code>	int		UNSIGNED	Hayır	Yok		AUTO_INCREMENT	Değiştir Kaldır Daha fazla
2	<code>code</code>	varchar(50)	<code>utf8mb4_0900_ai_ci</code>		Hayır	Yok			Değiştir Kaldır Daha fazla
3	<code>description</code>	varchar(255)	<code>utf8mb4_0900_ai_ci</code>		Evet	NULL			Değiştir Kaldır Daha fazla
4	<code>discount_amount</code>	decimal(10,2)			Hayır	Yok			Değiştir Kaldır Daha fazla
5	<code>min_order_amount</code>	decimal(10,2)			Hayır	0.00			Değiştir Kaldır Daha fazla
6	<code>start_date</code>	date			Hayır	Yok			Değiştir Kaldır Daha fazla
7	<code>end_date</code>	date			Hayır	Yok			Değiştir Kaldır Daha fazla
8	<code>max_usage</code>	int		UNSIGNED	Hayır	0			Değiştir Kaldır Daha fazla
9	<code>times_used</code>	int		UNSIGNED	Hayır	0			Değiştir Kaldır Daha fazla
10	<code>is_active</code>	tinyint(1)			Hayır	1			Değiştir Kaldır Daha fazla
11	<code>created_by_admin_id</code>	int		UNSIGNED	Evet	NULL			Değiştir Kaldır Daha fazla
12	<code>created_at</code>	timestamp			Hayır	CURRENT_TIMESTAMP		DEFAULT_GENERATED	Değiştir Kaldır Daha fazla

İndeksler										
Eylem	Anahtar adı		Türü	Benzersiz	Paketlendi	Sütun	Önemlilik	Karşılaştırma	Boş	Açıklama
Düzenle Yeniden adlandır Kaldır	<code>PRIMARY</code>		BTREE	Evet		id	2	A		Hayır
Düzenle Yeniden adlandır Kaldır	<code>code</code>		BTREE	Evet		code	2	A		Hayır
Düzenle Yeniden adlandır Kaldır	<code>fk_coupons_admin</code>		BTREE	Hayır		created_by_admin_id	2	A		Evet

Figure 1.4.1.1. Coupons Table Structure

1.4.2 Fields

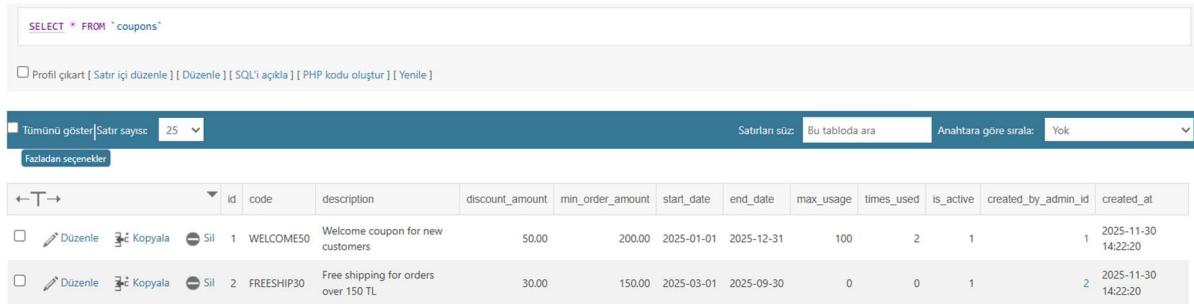
- id: The primary key is an unsigned integer that is automatically increased. gives each coupon record a unique identity.
- code: set as a UNIQUE index, VARCHAR(50), NOT NULL. This is the code, like WELCOME50, that the client will input. One code corresponds to precisely one promotion thanks to uniqueness.
- description: nullable, VARCHAR(255). An explanation of the promotion that administrators can read. For instance, "Free shipping for orders over 150 TL" or "Welcome coupon for new customers."
- discount_amount: not null, but DECIMAL(10,2). indicates the Turkish Lira discount that, if the coupon is valid, will be subtracted from the order total.
- min_order_amount: DECIMAL(10,2), NOT NULL, DEFAULT '0.00'. specifies the minimum order total needed to qualify for the coupon. The system may use it to prevent small orders from taking advantage of the promotion.
- start_date: DATE, not null. the first day that the coupon is valid.
- end_date: DATE, not null. the coupon's expiration date. The system ought to reject the coupon after this date.
- max_usage: An unsigned integer that defaults to 0 and is not null. The total number of times that all customers can use this coupon. "Unlimited usage" should be indicated with 0.
- times_used: An unsigned integer that defaults to 0 and is not null. determines the number of times this coupon has been used in orders so that the system can compare it to max_usage.
- is_active: TINYINT (1), default, not null 1. Boolean status flag: 0 indicates that the coupon is disabled even though the date and usage limits permit it, and 1 indicates that the coupon is currently active.
- created_by_admin_id: An unsigned integer foreign key with the constraint fk_coupons_admin that references admins (id). This field allows audit trails for promotional changes by storing the ID of the administrator who created the coupon.

1.4.3 Sample Data Display from Browse

There are two sample coupons in the development database:

- WELCOME50: From 2025-01-01 to 2025-12-31, a welcome coupon with a discount of 50.00 TL, a minimum order amount of 200.00 TL, a maximum of 100 total uses, and two already used. It was created by admin with ID 1 and is active (is_active = 1).
- FREESHIP30: a coupon that simulates free shipping on orders over 150.00 TL, with a 30.00 TL discount. It was created by admin with ID 2, is valid from 2025-03-01 to 2025-09-30, can be used any number of times (max_usage = 0), and hasn't been used yet.

A limited welcome promotion and a permanent-style free-shipping promotion are two typical situations.



The screenshot shows a MySQL database browser interface with the following details:

- SQL Query:** SELECT * FROM `coupons`
- Toolbar Buttons:** Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıka] [PHP kodu oluştur] [Yenile]
- Filter Options:** Tümünü göster [Satır sayısı: 25] Fazladan seçenekler
- Search Options:** Satırları süz: Bu tabloda ara, Anahtara göre sırala: Yok
- Table Headers:** ← → id code description discount_amount min_order_amount start_date end_date max_usage times_used is_active created_by_admin_id created_at
- Data Rows:**
 - Row 1: id=1, code=WELCOME50, description="Welcome coupon for new customers", discount_amount=50.00, min_order_amount=200.00, start_date="2025-01-01", end_date="2025-12-31", max_usage=100, times_used=2, is_active=1, created_by_admin_id=1, created_at="2025-11-30 14:22:20"
 - Row 2: id=2, code=FREESHIP30, description="Free shipping for orders over 150 TL", discount_amount=30.00, min_order_amount=150.00, start_date="2025-03-01", end_date="2025-09-30", max_usage=0, times_used=0, is_active=1, created_by_admin_id=2, created_at="2025-11-30 14:22:20"

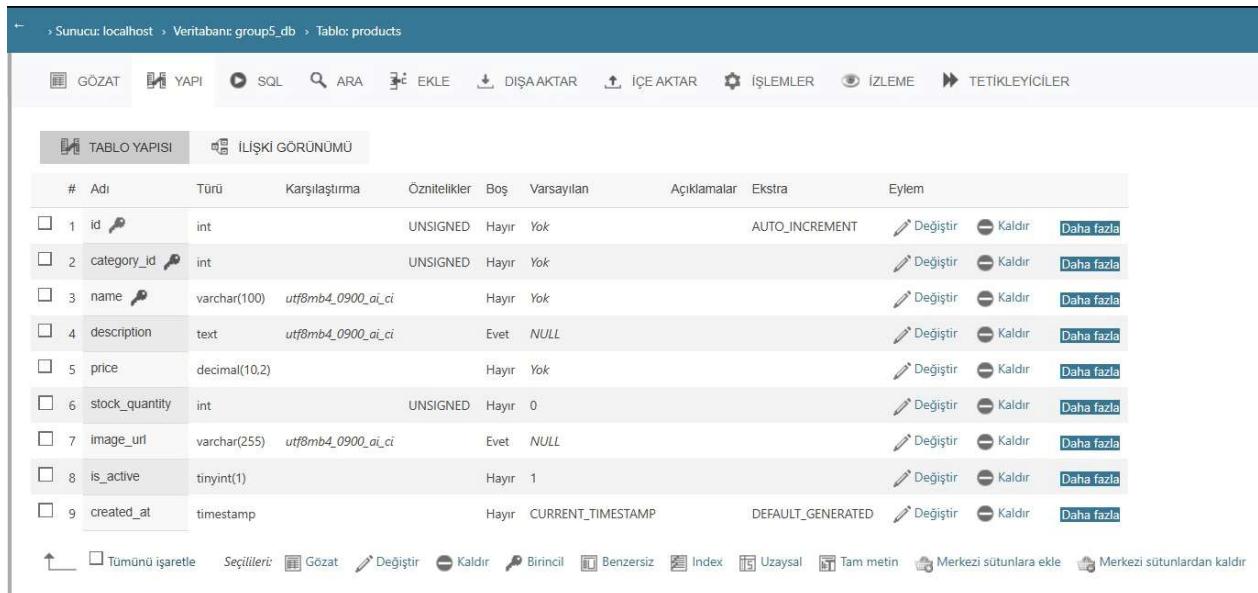
1.5 Products Table

1.5.1 Explanation

When looking at the pet products in the online shop, we can see that they're all stored in the products table, and only the rows that are marked as active get displayed on the product listing, search and detail pages.

Each product is part of a category, thanks to its `category_id`, and comes with all the necessary information, such as name, description, price, stock quantity and the path to its main image, and we're able to reference these products in the `cart_items` and `order_items` tables by their unique product id.

1.5.2 Fields



The screenshot shows the MySQL Workbench interface with the 'products' table selected. The top navigation bar includes links for 'SUNUCU: localhost', 'Veritabanı: group5_db', and 'Tablo: products'. Below the navigation are various database management tools: Gözat (View), Yapı (Structure), SQL, Ara (Search), Ekle (Insert), Dışa Aktar (Export), İçe Aktar (Import), İşlemler (Operations), İzleme (Monitoring), and TETİKLEYİCİLER (Triggers). The main area displays the table structure with two tabs: 'TABLO YAPISI' (Table Structure) and 'İLİŞKİ GÖRÜNÜMÜ' (Relationship Diagram). The 'TABLO YAPISI' tab is active, showing the following columns:

#	Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
1	<code>id</code>	int		UNSIGNED	Hayır	Yok		AUTO_INCREMENT	Değiştir Kaldır Daha fazla
2	<code>category_id</code>	int		UNSIGNED	Hayır	Yok			Değiştir Kaldır Daha fazla
3	<code>name</code>	varchar(100)	<code>utf8mb4_0900_ai_ci</code>		Hayır	Yok			Değiştir Kaldır Daha fazla
4	<code>description</code>	text	<code>utf8mb4_0900_ai_ci</code>		Evet	NULL			Değiştir Kaldır Daha fazla
5	<code>price</code>	decimal(10,2)			Hayır	Yok			Değiştir Kaldır Daha fazla
6	<code>stock_quantity</code>	int		UNSIGNED	Hayır	0			Değiştir Kaldır Daha fazla
7	<code>image_url</code>	varchar(255)	<code>utf8mb4_0900_ai_ci</code>		Evet	NULL			Değiştir Kaldır Daha fazla
8	<code>is_active</code>	tinyint(1)			Hayır	1			Değiştir Kaldır Daha fazla
9	<code>created_at</code>	timestamp			Hayır	CURRENT_TIMESTAMP		DEFAULT_GENERATED	Değiştir Kaldır Daha fazla

At the bottom, there are buttons for 'Tümünü işaretle' (Select All), 'Seçilileri' (Selected), 'Gözat' (View), 'Değiştir' (Change), 'Kaldır' (Delete), 'Birincil' (Primary), 'Benzersiz' (Unique), 'Index' (Index), 'Uzaysal' (Spatial), 'Tam metin' (Full-text), 'Merkezi sütunlara ekle' (Add to primary key), and 'Merkezi sütunlardan kaldır' (Remove from primary key).

Figure 1.5.2.1: Products Table Structure

- `id`: Unsigned integer, auto-incremented primary key. Unique identifier for each product.
- `category_id`: Unsigned integer, not null. Foreign key referencing `categories(id)`. It shows which category (Dog Food, Cat Toys, Accessories, etc.) the product belongs to and is used for filtering in the catalog.

- name: VARCHAR(100), not null. Short, human-readable name of the product, displayed everywhere in the UI.
- description: TEXT, nullable. Longer explanation of the product, ingredients, or features. Mainly used on the product detail page.
- price: DECIMAL(10,2), not null. Unit price of the product in TL, stored with two decimal places.
- stock_quantity: Unsigned integer, not null, default 0. Current amount of this product in stock. The application should not allow customers to order more than this quantity.
- image_url: VARCHAR(255), nullable. Relative path of the main product image (for example, images/dog_kibble_10kg.jpg). Used when showing product cards and detail pages.
- is_active: TINYINT(1), not null, default 1. Status flag indicating if the product is visible in the shop. A value of 1 means active (listed), while 0 means inactive (hidden but kept for history or future use).
- created_at: TIMESTAMP, default CURRENT_TIMESTAMP. The time when the product record was inserted into the database.

1.5.3 Sample Data Display from Browse

SELECT * FROM `products`											
<input type="checkbox"/> Profil çikart [Satır içi düzenlemek] [Düzenle] [SQL'i açıka] [PHP kodu oluştur] [Yenile]											
<input checked="" type="checkbox"/> Tümünü göster <input style="width: 100px;" type="text" value="Satır sayısı: 25"/>		Satırları size:		Bu tabloda ara		Anahtara göre sırala:		Yok			
Fazladan seçenekler											
← T →		id	category_id	name	description	price	stock_quantity	image_url	is_active	created_at	
<input type="checkbox"/>	<input type="button" value="Düzenle"/>	<input type="button" value="Kopyala"/>	<input type="button" value="Sil"/>	1	1 Premium Dog Kibble 10kg	High quality dry dog food for adult dogs.	450.00	51	images/dog_kibble_10kg.jpg	1	2025-11-30 14:22:20
<input type="checkbox"/>	<input type="button" value="Düzenle"/>	<input type="button" value="Kopyala"/>	<input type="button" value="Sil"/>	2	1 Salmon Cat Treats 200g	Soft salmon treats for cats.	120.00	101	images/salmon_cat_treats.jpg	1	2025-11-30 14:22:20
<input type="checkbox"/>	<input type="button" value="Düzenle"/>	<input type="button" value="Kopyala"/>	<input type="button" value="Sil"/>	3	3 Adjustable Dog Leash	Durable leash suitable for small and medium dogs.	200.00	31	images/adjustable_dog_leash.jpg	1	2025-11-30 14:22:20
<input type="checkbox"/>	<input type="button" value="Düzenle"/>	<input type="button" value="Kopyala"/>	<input type="button" value="Sil"/>	4	2 Cat Scratching Post	Sturdy scratching post with sisal rope.	350.00	20	images/cat_scratching_post.jpg	0	2025-11-30 14:22:20
<input type="checkbox"/>	<input type="button" value="Düzenle"/>	<input type="button" value="Kopyala"/>	<input type="button" value="Sil"/>	5	2 Bone Toy	Elastic toy for dogs to chew on	200.00	1	images/bone_toy.jpg	1	2025-11-30 14:22:20
<input type="checkbox"/>	<input type="button" value="Düzenle"/>	<input type="button" value="Kopyala"/>	<input type="button" value="Sil"/>	6	1 Premium Dog Kibble 12kg	Durable toy for dogs	500.00	60	images/new_dog_toy.jpg	1	2025-12-01 11:37:05

Figure 1.5.3.1: Products Table Examples

Example rows in the development database show off the capabilities of the product table, and fill up the space with varied, realistic products, categories, prices and stock levels.

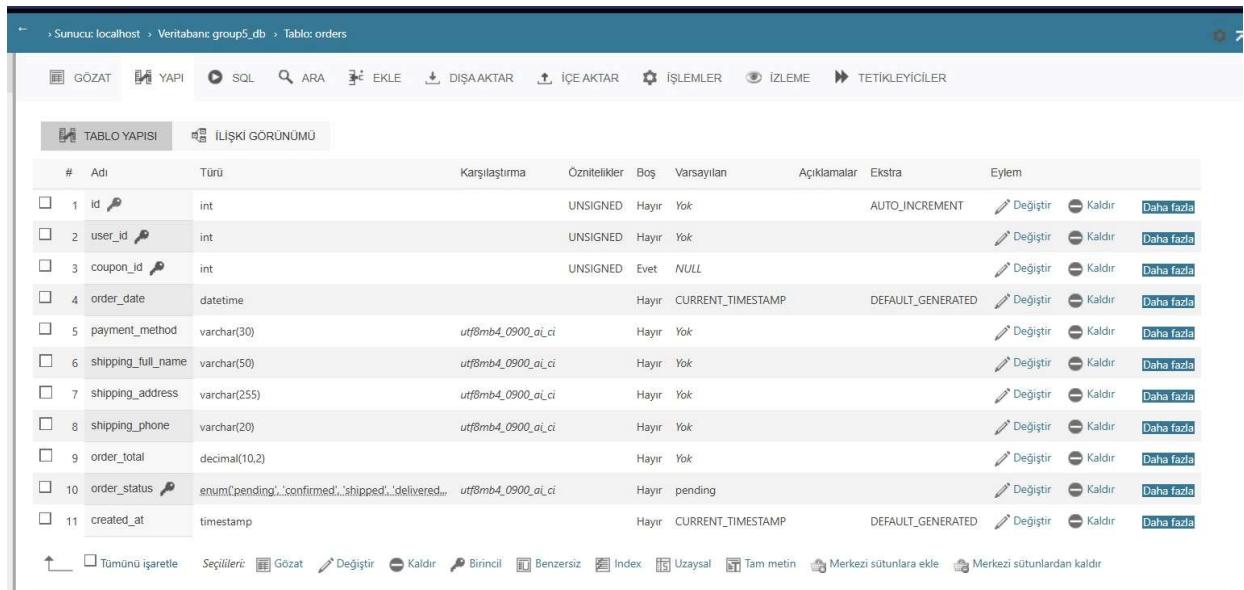
1.6 Orders Table

1.6.1 Explanation

The orders table keeps track of all completed orders made after customers finish the checkout process. Each row represents a single purchase and links to a user, an optional coupon, shipping details, payment method, total price, and order status.

This table is essential for managing the order lifecycle. It connects with order_items, which holds the specifics of each order, as well as with users and coupons through foreign keys. The order_status column lets both administrators and customers see if an order is pending, confirmed, shipped, delivered, or cancelled.

1.6.2 Fields



The screenshot shows the MySQL Workbench interface with the 'orders' table selected. The top navigation bar includes 'SUNUCU: localhost', 'Veritabanı: group5_db', and 'Tablo: orders'. Below the navigation is a toolbar with icons for 'GÖZAT', 'YAPI', 'SQL', 'ARA', 'EKLE', 'DİŞAAKTAR', 'İÇE AKTAR', 'İŞLEMLER', 'İZLEME', and 'TETİKLEYİCİLER'. The main area displays the table structure with 11 columns:

#	Adı	Türü	Karşılaştırma	Öznitelikler	Bos	Varsayılan	Açıklamalar	Ekstra	Eylem
1	id	int		UNSIGNED	Hayır	Yok		AUTO_INCREMENT	Değiştir Kaldır Daha fazla
2	user_id	int		UNSIGNED	Hayır	Yok			Değiştir Kaldır Daha fazla
3	coupon_id	int		UNSIGNED	Evet	NULL			Değiştir Kaldır Daha fazla
4	order_date	datetime			Hayır	CURRENT_TIMESTAMP		DEFAULT_GENERATED	Değiştir Kaldır Daha fazla
5	payment_method	varchar(30)	utf8mb4_0900_ai_ci		Hayır	Yok			Değiştir Kaldır Daha fazla
6	shipping_full_name	varchar(50)	utf8mb4_0900_ai_ci		Hayır	Yok			Değiştir Kaldır Daha fazla
7	shipping_address	varchar(255)	utf8mb4_0900_ai_ci		Hayır	Yok			Değiştir Kaldır Daha fazla
8	shipping_phone	varchar(20)	utf8mb4_0900_ai_ci		Hayır	Yok			Değiştir Kaldır Daha fazla
9	order_total	decimal(10,2)			Hayır	Yok			Değiştir Kaldır Daha fazla
10	order_status	enum('pending','confirmed','shipped','delivered')	utf8mb4_0900_ai_ci		Hayır	pending			Değiştir Kaldır Daha fazla
11	created_at	timestamp			Hayır	CURRENT_TIMESTAMP		DEFAULT_GENERATED	Değiştir Kaldır Daha fazla

At the bottom, there are buttons for 'Tümünü işaretle', 'Seçilileri: Gözat', 'Değiştir', 'Kaldır', 'Birincil', 'Benzersiz', 'Index', 'Uzaysal', 'Tam metin', 'Merkezi sütunlara ekle', and 'Merkezi sütunlardan kaldır'.

Figure 1.6.2.1: Orders Table Structure

- **id:** Unsigned integer, auto-incremented primary key. Unique ID of the order, shown to the user as “Order #id.”
- **user_id:** Unsigned integer, not null. Foreign key referencing users(id). It identifies which registered customer placed the order.
- **coupon_id:** Unsigned integer, nullable.
- Optional foreign key referencing coupons(id). If a coupon was used at checkout, this column records which one; otherwise, it is NULL.

- `order_date`: DATETIME, not null, default current date and time.
- The moment the order was created, which happens after the user confirms the checkout.
- `payment_method`: VARCHAR(30), not null. Records the chosen payment type, such as “Credit Card” or “Cash on Delivery.”
- `shipping_full_name`: VARCHAR(50), not null. Recipient’s full name for the shipment label.
- `shipping_address`: VARCHAR(255), not null. Complete shipping address (street, district, city, country).
- `shipping_phone`: VARCHAR(20), not null. Contact phone number for delivery issues.
- `order_total`: DECIMAL(10,2), not null. Total amount of the order in TL, combining all products and discounts from coupons.
- `order_status`: ENUM('pending','confirmed','shipped','delivered','cancelled'), not null, default 'pending'. Displays the current status of the order. The system or admins update this as the order is processed.
- `created_at`: TIMESTAMP, default CURRENT_TIMESTAMP. Time of creation in the database. It is mainly used for sorting orders and reporting.

1.6.3 Sample Data Display from Browse

Orders																																																																					
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<code>SELECT * FROM `orders`</code>																																																																					
<input type="checkbox"/> Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıka] [PHP kodu oluştur] [Yenile]																																																																					
<input checked="" type="checkbox"/> Tümünü göster <input type="text" value="25"/> Satır sayıs: <input type="button" value="Yazdır"/> <input type="button" value="CSV'ye Ekle"/> <input type="button" value="XLS'ye Ekle"/> <input type="button" value="PDF'ye Ekle"/> <input type="button" value="Word'ye Ekle"/> <input type="button" value="Excel'ye Ekle"/> <input type="button" value="İmzala"/>																																																																					
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<table border="1"> <thead> <tr> <th>id</th><th>user_id</th><th>coupon_id</th><th>order_date</th><th>payment_method</th><th>shipping_full_name</th><th>shipping_address</th><th>shipping_phone</th><th>order_total</th><th>order_status</th><th>created_at</th><th> </th><th> </th><th> </th></tr> </thead> <tbody> <tr> <td>1</td><td>1</td><td>NULL</td><td>2025-11-30 14:22:20</td><td>Credit Card</td><td>Hasan Tezcan</td><td>Istanbul, Turkey</td><td>+90-555-111-2233</td><td>720.00</td><td>confirmed</td><td>2025-11-30 14:22:20</td><td> </td><td> </td><td> </td></tr> <tr> <td>2</td><td>2</td><td>NULL</td><td>2025-11-30 14:22:20</td><td>Cash on Delivery</td><td>Ayse Yilmaz</td><td>Kadikoy, Istanbul</td><td>+90-555-222-3344</td><td>350.00</td><td>cancelled</td><td>2025-11-30 14:22:20</td><td> </td><td> </td><td> </td></tr> <tr> <td>3</td><td>1</td><td>NULL</td><td>2025-12-01 11:26:05</td><td>Credit Card</td><td>Hasan Tezcan</td><td>Istanbul, Turkey</td><td>+90-555-111-2233</td><td>720.00</td><td>pending</td><td>2025-12-01 11:26:05</td><td> </td><td> </td><td> </td></tr> </tbody> </table>														id	user_id	coupon_id	order_date	payment_method	shipping_full_name	shipping_address	shipping_phone	order_total	order_status	created_at				1	1	NULL	2025-11-30 14:22:20	Credit Card	Hasan Tezcan	Istanbul, Turkey	+90-555-111-2233	720.00	confirmed	2025-11-30 14:22:20				2	2	NULL	2025-11-30 14:22:20	Cash on Delivery	Ayse Yilmaz	Kadikoy, Istanbul	+90-555-222-3344	350.00	cancelled	2025-11-30 14:22:20				3	1	NULL	2025-12-01 11:26:05	Credit Card	Hasan Tezcan	Istanbul, Turkey	+90-555-111-2233	720.00	pending	2025-12-01 11:26:05			
id	user_id	coupon_id	order_date	payment_method	shipping_full_name	shipping_address	shipping_phone	order_total	order_status	created_at																																																											
1	1	NULL	2025-11-30 14:22:20	Credit Card	Hasan Tezcan	Istanbul, Turkey	+90-555-111-2233	720.00	confirmed	2025-11-30 14:22:20																																																											
2	2	NULL	2025-11-30 14:22:20	Cash on Delivery	Ayse Yilmaz	Kadikoy, Istanbul	+90-555-222-3344	350.00	cancelled	2025-11-30 14:22:20																																																											
3	1	NULL	2025-12-01 11:26:05	Credit Card	Hasan Tezcan	Istanbul, Turkey	+90-555-111-2233	720.00	pending	2025-12-01 11:26:05																																																											

Figure 1.6.3.1: Orders Table Examples

These sample rows represent typical situations (successful, cancelled, and pending orders) and are used to test the “My Orders” page for customers and the order management screens for admins.

1.7 Order Items Table

1.7.1 Explanation

The `order_items` table keeps the detailed line items for each completed order. When a customer finishes checkout, the system creates a new row in the `orders` table and then copies the information from the related `cart_items` into `order_items`.

Each row in `order_items` connects a product to an order and stores how many units were bought, the unit price at the time of purchase and the total amount for that line. It is very important to keep `unit_price` here, because product prices can change later, but old orders must keep their original values for invoices and reports.

In this way, `cart_items` is used for the temporary, editable cart, and `order_items` is used as the final, unchangeable record of what the customer actually bought.

TABLO YAPISI		İLİŞKİ GÖRÜNÜMÜ							
#	Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
<input type="checkbox"/>	1 id 	int		UNSIGNED	Hayır	Yok		AUTO_INCREMENT	 Değiştir  Kaldır Daha fazla
<input type="checkbox"/>	2 order_id 	int		UNSIGNED	Hayır	Yok			 Değiştir  Kaldır Daha fazla
<input type="checkbox"/>	3 product_id 	int		UNSIGNED	Hayır	Yok			 Değiştir  Kaldır Daha fazla
<input type="checkbox"/>	4 quantity	int		UNSIGNED	Hayır	Yok			 Değiştir  Kaldır Daha fazla
<input type="checkbox"/>	5 unit_price	decimal(10,2)			Hayır	Yok			 Değiştir  Kaldır Daha fazla
<input type="checkbox"/>	6 line_total	decimal(10,2)			Hayır	Yok			 Değiştir  Kaldır Daha fazla

Eylem	Anahtar adı	Türü	Benzersiz	Paketlendi	Sütun	Önemlilik	Karşılaştırma	Boş	Açıklama
 Düzenle  Yeniden adlandır  Kaldır	PRIMARY	BTREE	Evet	Hayır	id	7	A	Hayır	
 Düzenle  Yeniden adlandır  Kaldır	idx_order_items_order	BTREE	Hayır	Hayır	order_id	2	A	Hayır	
 Düzenle  Yeniden adlandır  Kaldır	idx_order_items_product	BTREE	Hayır	Hayır	product_id	5	A	Hayır	

Figure 1.7.1.1. Order Items Table Structure

1.7.2 Fields

- Id:** Unsigned integer, auto-incremented primary key. This identifies each order line in a unique way.
- order_id:** Unsigned integer, not null, foreign key referencing `orders(id)`. It shows which order this line belongs to. One order can have many related `order_items`.

- **product_id:** Unsigned integer, not null, foreign key referencing products(id). It shows which product was sold in this line.
- **quantity:** Unsigned integer, not null. This column stores how many units of the product the customer ordered.
- **unit_price:** DECIMAL (10,2), not null. This is the price for one unit of the product when the order was created. It can be different from the current price in the catalog.
- **line_total:** DECIMAL (10,2), not null. This is the total amount for the line and is usually calculated as quantity × unit_price.

There are extra indexes on order_id and product_id so the system can list all items of one order quickly and also support sales reports per product.

1.7.3 Sample Data Display from Browse

In the development database, the order_items table contains several test rows. For example:

- For order_id = 1, there are three lines with different products: one with unit_price = 450.00 and line_total = 450.00, one with unit_price = 120.00 and line_total = 120.00, and one with unit_price = 200.00 and line_total = 200.00.
- For order_id = 2, there is a line with product_id = 4, quantity = 1, unit_price = 350.00 and line_total = 350.00.

Together, these lines show the full content of each order and are used to calculate the order totals, print invoices and create sales statistics.

	<input type="button" value="←"/> <input type="button" value="→"/>									
<input type="checkbox"/>	<input type="button" value="Düzenle"/>	<input type="button" value="Kopyala"/>	<input type="button" value="Sil"/>	1	1	1	1	450.00	450.00	
<input type="checkbox"/>	<input type="button" value="Düzenle"/>	<input type="button" value="Kopyala"/>	<input type="button" value="Sil"/>	2	1	2	1	120.00	120.00	
<input type="checkbox"/>	<input type="button" value="Düzenle"/>	<input type="button" value="Kopyala"/>	<input type="button" value="Sil"/>	3	1	3	1	200.00	200.00	
<input type="checkbox"/>	<input type="button" value="Düzenle"/>	<input type="button" value="Kopyala"/>	<input type="button" value="Sil"/>	4	2	4	1	350.00	350.00	
<input type="checkbox"/>	<input type="button" value="Düzenle"/>	<input type="button" value="Kopyala"/>	<input type="button" value="Sil"/>	5	1	2	1	120.00	120.00	
<input type="checkbox"/>	<input type="button" value="Düzenle"/>	<input type="button" value="Kopyala"/>	<input type="button" value="Sil"/>	6	1	3	1	200.00	200.00	
<input type="checkbox"/>	<input type="button" value="Düzenle"/>	<input type="button" value="Kopyala"/>	<input type="button" value="Sil"/>	7	1	5	1	200.00	200.00	

Figure 1.7.3.1. Order Items Table Example

1.8 Shopping Cart Table

1.8.1 Explanation

The shopping_carts table keeps the active carts of the users in the CrawlBuds PetShop system. When a customer adds products to the cart, the application either creates a new row in this table or reuses the existing row for that user. The column cart_total stores the total price of all items in the cart, so the system can quickly show the current basket total on each page.

Each row means one cart and is linked to one user with the user_id foreign key. Because there is a unique index on user_id, a customer can have at most one active shopping cart at the same time. This makes it easier to move from browsing products to the checkout process.

TABLO YAPISI		İLİŞKİ GÖRÜNÜMÜ										
#	Adı	Türü	Karşılaştırma	Öznitelikler	Bos	Varsayılan	Açıklamalar	Ekstra	Eylem			
<input type="checkbox"/>	1 id	int		UNSIGNED	Hayır	Yok	AUTO_INCREMENT			 Değiştir	 Kaldır	Daha fazla
<input type="checkbox"/>	2 user_id	int		UNSIGNED	Hayır	Yok				 Değiştir	 Kaldır	Daha fazla
<input type="checkbox"/>	3 cart_total	decimal(10,2)			Hayır	0.00				 Değiştir	 Kaldır	Daha fazla
<input type="checkbox"/>	4 created_at	timestamp			Hayır	CURRENT_TIMESTAMP	DEFAULT_GENERATED			 Değiştir	 Kaldır	Daha fazla

Eylem	Anahtar adı	Türü	Benzersiz	Paketlendi	Sütun	Önemlilik	Karşılaştırma	Bos	Açıklama
 Düzenle	 Yeniden adlandır	 Kaldır	PRIMARY	BTREE	Evet	Hayır	id	2	A Hayır
 Düzenle	 Yeniden adlandır	 Kaldır	uq_cart_user	BTREE	Evet	Hayır	user_id	2	A Hayır

Figure 1.8.1.1. Shopping Cart Table Structure

1.8.2 Fields

- id:** Unsigned integer, auto-incremented primary key. This value uniquely identifies each cart and is used as a reference from the cart_items table.

- **user_id:** Unsigned integer, not null, foreign key referencing users(id). It shows which user owns this cart. Because of the unique constraint on this column, every user can only have one row in shopping_carts.
- **cart_total:** DECIMAL (10,2), not null, default 0.00. This column keeps the sum of the prices of all items in the cart. It is updated when items are added, removed or when the quantity changes.
- **created_at:** TIMESTAMP, not null, default CURRENT_TIMESTAMP. It saves the date and time when the cart was created. This can later be used to check old or abandoned carts.

1.8.3 Sample Data Display from Browse

In the current development database, the shopping_carts table has two example rows:

- A cart with id = 1, user_id = 1, cart_total = 770.00 TL and created_at = 2025-11-30 14:22:20.
- A cart with id = 2, user_id = 3, cart_total = 350.00 TL and the same timestamp.

These rows are used while testing to simulate users who already have items in their carts.

					id	user_id	cart_total	created_at
<input type="checkbox"/>	 Düzenle	 Kopyala	 Sil	1	1	770.00	2025-11-30 14:22:20	
<input type="checkbox"/>	 Düzenle	 Kopyala	 Sil	2	3	350.00	2025-11-30 14:22:20	

Figure 1.8.3.1. Shopping Cart Table Example

1.9 Shopping Cart Items Table

1.9.1 Explanation

The `cart_items` table stores the single product lines that belong to each shopping cart. The `shopping_carts` table represents the cart as a whole, and `cart_items` shows the details inside it, one row for each product.

Every row contains the cart that the item belongs to, the product that was added, the chosen quantity and the subtotal for that line (`item_total`). The pair (`cart_id`, `product_id`) is unique, so the same product cannot appear more than once in the same cart. If the customer adds the same product again, the application increases the quantity instead.

This table is important for calculating the total price of the cart, checking stock before checkout, and later turning the cart into an order.

TABLO YAPISI		İLİŞKİ GÖRÜNÜMÜ							
#	Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
<input type="checkbox"/>	1 id 	int		UNSIGNED	Hayır	Yok		AUTO_INCREMENT	 Değiştir  Kaldır Daha fazla
<input type="checkbox"/>	2 cart_id 	int		UNSIGNED	Hayır	Yok			 Değiştir  Kaldır Daha fazla
<input type="checkbox"/>	3 product_id 	int		UNSIGNED	Hayır	Yok			 Değiştir  Kaldır Daha fazla
<input type="checkbox"/>	4 quantity	int		UNSIGNED	Hayır	Yok			 Değiştir  Kaldır Daha fazla
<input type="checkbox"/>	5 item_total	decimal(10,2)			Hayır	Yok			 Değiştir  Kaldır Daha fazla

Eylem	Anahtar adı	Türü	Benzersiz	Paketlendi	Sütun	Önemlilik	Karşılaştırma	Boş	Açıklama
 Düzenle  Yeniden adlandır  Kaldır PRIMARY BTREE Evet Hayır id 1 A Hayır									
 Düzenle  Yeniden adlandır  Kaldır uq_cart_product BTREE Evet Hayır cart_id 1 A Hayır	product_id								
 Düzenle  Yeniden adlandır  Kaldır idx_cart_items_cart BTREE Hayır Hayır cart_id 1 A Hayır									
 Düzenle  Yeniden adlandır  Kaldır idx_cart_items_product BTREE Hayır Hayır product_id 1 A Hayır									

Figure 1.9.1.1. Shopping Cart Items Table Structure

1.9.2 Fields

- **id:** Unsigned integer, auto-incremented primary key. This value uniquely identifies each cart item row.
- **cart_id:** Unsigned integer, not null, foreign key referencing shopping_carts(id). It shows which cart this item belongs to and connects many items to one cart.
- **product_id:** Unsigned integer, not null, foreign key referencing products(id). It shows which product was added to the cart.
- **quantity:** Unsigned integer, not null. This column tells how many units of the product the customer wants to buy.
- **item_total:** DECIMAL (10,2), not null. This is the subtotal price for the line, usually quantity × product price.

Besides the primary key, there are some indexes:

- a UNIQUE index on (cart_id, product_id) so that one product appears at most once in each cart,
- an index on cart_id to quickly get all items for a given cart,
- an index on product_id to help with product-based queries or reports.

1.9.3 Sample Data Display from Browse

Right now, the cart_items table contains one example row:

- A row with id = 4, cart_id = 2, product_id = 4, quantity = 1 and item_total = 350.00 TL.

This row represents a user whose cart has ID 2 and who added one unit of product 4 (in our sample data this is “Cat Scratching Post”) to the cart.



A screenshot of a database browser interface showing a single row in the cart_items table. The table has columns: id, cart_id, product_id, quantity, and item_total. The data for the single row is: id=4, cart_id=2, product_id=4, quantity=1, item_total=350.00. Below the table are standard database actions: Düzenle (Edit), Kopyala (Copy), and Sil (Delete).

	← T →		id	cart_id	product_id	quantity	item_total
<input type="checkbox"/>	 Düzenle	 Kopyala	 Sil	4	2	1	350.00

Figure 1.9.3.1 Shopping Cart Items Table Example

2. Queries

User Registration and Authentication

The screenshot shows a user interface for a pet shop. At the top left is the logo 'Crawl Buds PetShop'. At the top right is a link '← Back to shop'. The main area is divided into two sections: 'Welcome Back, Pet Parent!' on the left and 'Create a Customer Account' on the right.

Welcome Back, Pet Parent!
Log in to see your orders:

- Customer Admin
- Email or Username:
- Password: (Eye icon)
- Remember me [Forgot password?](#)
-

Create a Customer Account
Join the Crawl Buds family to track orders and save your details.

- Full Name:
- Email:
- Password: Confirm Password:
- Phone Number:
- Address line:
- City: Postal Code:
- Country: (Dropdown arrow)
- Use this as my default shipping address
-

We protect your data. Your connection is secure..

Figure 2.1 Login and Registration Page

1. Is e-mail Unique? (REQ-REGI-02)

When a new user registers, it checks whether the email address entered for registration is unique.

group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır: 

```
1 SELECT COUNT(*) AS existing_count
2 FROM users
3 WHERE email = 'hasan@example.com';
```

Figure 2.1.1a SQL query

SQL sorgunuz başarılı olarak çalıştırıldı.

```
SELECT COUNT(*) AS existing_count FROM users WHERE email = 'hasan@example.com';
```

Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıkla] [PHP kodu oluştur] [Yenile]

Fazladan seçenekler

existing_count

1

Figure 2.1.1b SQL query output

2. User Registration (REQ-REGI-01,03,04)

When a new user registers, this creates a new entry in our database's users table using all the information retrieved from the interface. The SQL query in Figure uses predefined values; during the actual development process, this information will come from the interface inputs.

```
group5_db.users tablosu üzerinde SQL sorgusunu/sorgularını çalıştır: ⓘ  
  
1 INSERT INTO users (username, email, password, phone_number, address)  
2 VALUES ('Sezai Araplarlı', 'sezai@example.com',  
3         'sezo123', '905551112233', 'Istanbul, Turkey');
```

Figure 2.1.2a SQL query

Tümünü göster Satır sayısı: 25 Satırları süz: Bu tabloda ara Anahtar Fazladan seçenekler									
	← T →	id	username	email	password	phone_number	address	created_at	updated_at
<input type="checkbox"/>		1	Hasan Tezcan	hasan@example.com	12345	905551112233	Istanbul, Turkey	2025-11-30 14:22:20	2025-11-30 14:35:18
<input type="checkbox"/>		2	Ayse Yilmaz	ayse@example.com	abcd	905552223344	Kadikoy, Istanbul	2025-11-30 14:22:20	2025-11-30 14:35:22
<input type="checkbox"/>		3	Mehmet Demir	mehmet@example.com	hasantezcan123	905553334455	Besiktas, Istanbul	2025-11-30 14:22:20	2025-11-30 14:35:24
<input type="checkbox"/>		4	Sezai Araplarlı	sezai@example.com	sezo123	905551112233	Istanbul, Turkey	2025-12-01 09:26:26	NULL

Figure 2.1.2b SQL query output

3. Finding User When Login (REQ-REGI-05,06,07)

It retrieves the user information related to the e-mail entered during login.

group5_db.users tablosu üzerinde SQL sorgusunu/sorgularını çalıştır: 

```
1 SELECT id, username, email, password  
2 FROM users  
3 WHERE email = 'hasan@example.com'  
4 LIMIT 1;  
5
```

Figure 2.1.3a SQL query

Sorgu kutusunu göster

✓ Gösterilen satır 0 - 0 (toplam 1, Sorgu 0.0003 saniye sürdü.)

```
SELECT id, username, email, password FROM users WHERE email = 'hasan@example.com' LIMIT 1;
```

Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıklıkla] [PHP kodu oluştur] [Yenile]

Fazladan seçenekler

	← T →	▼	id	username	email	password
<input type="checkbox"/>	 Düzenle  Kopyala  Sil	1	Hasan Tezcan	hasan@example.com	12345	

 Tümünü işaretle **Seçilileri:**  Düzenle  Kopyala  Sil  Dışa aktar

Figure 2.1.3b SQL query output

Product Catalog and Browsing

Crawl Buds PetShop

Home Shop My Orders Help

Everything your pet needs, in one place.

Find the best food, toys, and accessories to keep your furry, scaly, or feathery friends happy and healthy.

[Shop Now](#)



Filters

Category: Food, Toys, Leashes, Beds, Clothing

Price Range

Availability

[Apply Filters](#)

Sort by: Popularity

Search for pet products...

Product Image	Name	Description	Price	Status	Action
	Organic Dog Kibble	Premium grain-free formula for all breeds.	\$59.99	In Stock	Add to Cart
	Durable Rope Toy	Perfect for tug-of-war and chewing.	\$12.50	In Stock	Add to Cart
	Reptile Heat Lamp	Provides essential UVB/UV for your reptile.	\$24.00	Out of Stock	Add to Cart
	Plush Calming Bed	Ultra-soft for a perfect, cozy nap time.	\$45.00	In Stock	Add to Cart
	Interactive Feather Wand	Engages your cat's natural hunting instincts.	\$8.99	In Stock	Add to Cart
	Stylish Pet Coat	Keep your best friend warm and fashionable.	\$32.00	In Stock	Add to Cart

Previous 1 2 3 Next

Figure 2.2a Catalog Page



DOGFOOD

Premium All-Natural Dog Food

★★★★★ (4.2 average)

- Made with all-natural, high-quality ingredients.
- Supports joint health and a shiny coat.
- Veterinarian-approved formula.
- Suitable for all breeds and life stages.

\$59.99 In Stock

- 1 +

Add to Cart

Buy Now

Estimated delivery: 3-5 business days

Free shipping on orders over \$50

[Description](#)[Reviews](#)[Related Products](#)

Give your fury friend the best with our veterinarian-approved formula. Packed with high-quality protein, essential vitamins, and minerals, this recipe supports joint health, a shiny coat, and optimal digestion. Suitable for all breeds and life stages. Our premium dog food is made from the finest all-natural ingredients, providing balanced nutrition for a healthy, active life. Free from artificial preservatives and fillers.

Ingredients & Materials

Deboned Chicken, Brown Rice, Peas, Carrots, Flaxseed, Chicken Fat (preserved with mixed tocopherols), Natural Flavor, Fish Oil, a balanced blend of vitamins (Vitamin E Supplement, Niacin, Vitamin A Supplement) and minerals (Zinc Sulfate, Iron Sulfate).

Usage Notes

For adult dogs, feed 1 to 1.5 cups per 15 lbs of body weight per day. For puppies, pregnant or nursing dogs, feed up to twice the adult amount. Adjust feeding amounts as needed to maintain ideal body condition. Fresh water should be available at all times.

Figure 2.2b Detailed Product Page

1. List Products by Category (REQ-PROD-01,06)

When the customer opens the catalog page, all active products in the catalog section are listed along with their category information.

```
group5_db.users tablosu üzerinde SQL sorgusunu/sorgularını çalıştır: ⓘ
```

```
1 SELECT p.id,
2     p.name,
3     p.description,
4     p.price,
5     p.stock_quantity,
6     p.image_url,
7     c.name AS category_name
8 FROM products p
9 JOIN categories c ON p.category_id = c.id
10 WHERE p.is_active = 1
11 ORDER BY p.name ASC;
12
```

Figure 2.2.1a SQL query

The screenshot shows a MySQL query results page. At the top, there is a green header bar with the text "Gösterilen satır 0 – 3 (toplam 4, Soru 0.0005 saniye sürdü.) [name: ADJUSTABLE DOG LEASH... - SALMON CAT TREATS 200G...]" and a link "[SQL'i açıka]". Below the header, the SQL query is displayed:

```
SELECT p.id, p.name, p.description, p.price, p.stock_quantity, p.image_url, c.name AS category_name FROM products p JOIN categories c ON p.category_id = c.id WHERE p.is_active = 1 ORDER BY p.name ASC;
```

Below the query, there are several buttons: "Profil çıkart" [Profle print], "[Satır içi düzenle]" [Edit row], "[Düzenle]" [Edit], "[SQL'i açıka]" [Open SQL], and "[Yenile]" [Refresh].

At the bottom, there are search and sorting options: "Tümünü göster" [Show all], "Satır sayısı" [Row count] set to 25, "Sahifan sayı:" [Pages per page], "Bu tabloda ara" [Search in this table], "Anahtarla göre sırala" [Sort by key], and "Yok" [None] for sorting direction. There is also a "Fazladan seçenekler" [More options] button.

ID	Name	Description	Price	Stock Quantity	Image URL	Category Name
3	Adjustable Dog Leash	Durable leash suitable for small and medium dogs.	200.00	30	images/adjustable_dog_leash.jpg	Accessories
4	Cat Scratching Post	Sturdy scratching post with sisal rope.	350.00	20	images/cat_scratching_post.jpg	Cat Toys
1	Premium Dog Kibble 10kg	High quality dry dog food for adult dogs.	450.00	50	images/dog_kibble_10kg.jpg	Dog Food
2	Salmon Cat Treats 200g	Soft salmon treats for cats.	120.00	100	images/salmon_cat_treats.jpg	Dog Food

Figure 2.2.1b SQL query output

2. Filter by Category (REQ-PROD-02)

When the user selects a category from the filter pane, it ensures that only products belonging to that category are displayed.

group5_db.users tablosu üzerinde SQL sorgusunu/sorgularını çalıştır: 

```
1 SELECT p.id, p.name, p.price, p.image_url
2 FROM products p
3 JOIN categories c ON p.category_id = c.id
4 WHERE p.is_active = 1
5   AND c.id = 1;
6
```

Figure 2.2.2a SQL query

✓ Gösterilen satır 0 - 1 (toplam 2. Sorgu 0.0004 saniye sürdü.)

```
SELECT p.id, p.name, p.price, p.image_url FROM products p JOIN categories c ON p.category_id = c.id WHERE p.is_active = 1 AND c.id = 1;
```

Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıkla] [PHP kodu oluştur] [Yenile]

Tümünü göster Satır sayısı Bu tabloda ara

Fazladan seçenekler

id	name	price	image_url
1	Premium Dog Kibble 10kg	450.00	images/dog_kibble_10kg.jpg
2	Salmon Cat Treats 200g	120.00	images/salmon_cat_treats.jpg

Figure 2.2.2b SQL query output

3. Sort by Price (REQ-PROD-03)

It sorts the products by price in ascending order (from cheapest to most expensive).

group5_db.products tablosu üzerinde SQL sorgusunu/sorgularını çalıştır: 

```
1 SELECT p.id, p.name, p.price, p.image_url  
2 FROM products p  
3 WHERE p.is_active = 1  
4 ORDER BY p.price ASC;  
5 |
```

Figure 2.2.3a SQL query

✓ Gösterilen satır 0 - 3 (toplam 4. Sorgu 0.0004 saniye sürdü.) [price: 120.00... - 450.00..]

```
SELECT p.id, p.name, p.price, p.image_url FROM products p WHERE p.is_active = 1 ORDER BY p.price ASC;
```

Profil çkart [Satır içi düzenle] [Düzenle] [SQL'i açıkla] [PHP kodu oluştur] [Yenile]

Tümünü göster | Satır sayısı: 25

Fazladan seçenekler

<input type="checkbox"/>	 Düzenle	 Kopyala	 Sil	2	Salmon Cat Treats 200g	120.00	images/salmon_cat_treats.jpg
<input type="checkbox"/>	 Düzenle	 Kopyala	 Sil	3	Adjustable Dog Leash	200.00	images/adjustable_dog_leash.jpg
<input type="checkbox"/>	 Düzenle	 Kopyala	 Sil	4	Cat Scratching Post	350.00	images/cat_scratching_post.jpg
<input type="checkbox"/>	 Düzenle	 Kopyala	 Sil	1	Premium Dog Kibble 10kg	450.00	images/dog_kibble_10kg.jpg

 Tümünü işaretle **Seçili:**  Düzenle  Kopyala  Sil  Dışa aktar

Figure 2.2.3b SQL query output

4. Product Detail (REQ-PROD-04,05)

When the user clicks on a product and goes to the page of the relevant product, it brings up all the information about that product.

```
group5_db.products tablosu üzerinde SQL sorgusunu/sorgularını çalıştır: ⓘ
```

```
1 SELECT id,
2      name,
3      description,
4      price,
5      stock_quantity,
6      image_url
7 FROM products
8 WHERE id = 1;
9
```

Figure 2.2.4a SQL query

The screenshot shows a MySQL query results interface. At the top, there is a button labeled "Sorgu kutusunu göster". Below it, a green bar displays the message "✓ Gösterilen satır 0 - 0 (toplam 1, Sorgu 0.0003 saniye sürdü.)". The main area contains the SQL query: "SELECT id, name, description, price, stock_quantity, image_url FROM products WHERE id = 1;". Below the query, there is a link "Profil çkart [Satır içi düzenle] [Düzenle] [SQL'i açıqla] [PHP kodu oluştur] [Yenile]". At the bottom, there is a toolbar with buttons for "Tümünü göster" (Show all), "Satır sayısı:" (Row count: 25), and "Fazladan seçenekler" (More options). The results table has columns: name, description, price, stock_quantity, and image_url. A single row is shown: "1 Premium Dog Kibble 10kg High quality dry dog food for adult dogs. 450.00 50 images/dog_kibble_10kg.jpg". Below the table, there are buttons for "Düzenle", "Kopyala", and "Sil". At the very bottom, there are links for "Tümünü işaretle", "Seçilileri", "Düzenle", "Kopyala", "Sil", and "Dişa aktar".

name						description	price	stock_quantity	image_url
1	Premium Dog Kibble 10kg	High quality dry dog food for adult dogs.	450.00	50	images/dog_kibble_10kg.jpg				

Figure 2.2.4b SQL query output

5. Availability Filter (REQ-PROD-05)

It allows the user to filter only products that are in stock. It works based on the quantity in stock being greater than 0.

```
group5_db.products tablosu üzerinde SQL sorgusunu/sorgularını çalıştır: ⓘ  
1 SELECT id, name, price, image_url  
2 FROM products  
3 WHERE is_active = 1  
4   AND stock_quantity > 0;  
5
```

Figure 2.2.5a SQL query

✓ Gösterilen satır 0 - 3 (toplam 4, Sorgu 0.0003 saniye sürdü.)

```
SELECT id, name, price, image_url FROM products WHERE is_active = 1 AND stock_quantity > 0;
```

Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıklala] [PHP kodu oluştur] [Yenile]

Tümünü göster | Satır sayısı: 25 ▾

Fazladan seçenekler

<input type="checkbox"/>		Düzenle		Kopyala		Sil
1	Premium Dog Kibble 10kg	450.00	images/dog_kibble_10kg.jpg			
2	Salmon Cat Treats 200g	120.00	images/salmon_cat_treats.jpg			
3	Adjustable Dog Leash	200.00	images/adjustable_dog_leash.jpg			
4	Cat Scratching Post	350.00	images/cat_scratching_post.jpg			

↑ Tümünü işaretle **Seçili:** Düzenle Kopyala Sil Dışa aktar

Figure 2.2.5b SQL query output

Shopping Cart Management

The screenshot shows a shopping cart page for 'Crawl Buds PetShop'. At the top, there are navigation links for Dogs, Cats, Small Pets, and Sale. A user icon and a shopping cart icon with a '3' are also present. The main content area is titled 'My Cart (3 Items)'. It displays three items:

PRODUCT	PRICE	QUANTITY	SUBTOTAL
Organic Puppy Food Brand: Pawsome Bites	\$25.99	- 1 +	\$25.99
Durable Chew Toy Color: Red	\$12.50	- 2 +	\$25.00
Cozy Cat Bed Size: Medium	\$45.00	- 1 +	\$45.00

A 'Clear Cart' button is located at the bottom left of the cart table. To the right, an 'Order Summary' box shows the subtotal (\$95.99), estimated shipping (\$5.00), and a total of \$100.99. It includes fields for a coupon code and an 'Apply' button, along with a large green 'Proceed to Checkout' button and a link to 'Or Continue Shopping'.

Figure 2.3 Shopping Cart Page

1. Shopping Cart Page (REQ-CART-01,03)

When the user wants to go to his/her cart, it retrieves the user's cart information from the database.

```
group5_db.products tablosu üzerinde SQL sorgusunu/sorgularını çalıştır: ⓘ  
  
1 SELECT id, cart_total  
2 FROM shopping_carts  
3 WHERE user_id = 1; -- this will be current logged in user  
4
```

Figure 2.3.1a SQL query

Sorgu kutusunu göster

✓ Gösterilen satır 0 - 0 (toplam 1, Sorgu 0.0004 saniye sürdü.)

```
SELECT id, cart_total FROM shopping_carts WHERE user_id = 1;
```

Profil çıkış [Satır içi düzenle] [Düzenle] [SQL'i açıklar] [PHP kodu oluştur] [Yenile]

Tümünü göster | Satır sayısı: 25 ▾

Fazladan seçenekler

	← T →		id	cart_total				
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1	770.00

Figure 2.3.1b SQL query output

2. Add to Cart (REQ-CART-02,03)

When a product is added to the cart, this product information is added to the cart belonging to the relevant user's cart id.

group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır:

```
1 INSERT INTO cart_items (cart_id, product_id, quantity, item_total)
2 VALUES (1, 5, 1, 450.00);
3
```

Figure 2.3.2a SQL query

Gösterilen satır 0 - 4 (toplam 5, Sorgu 0.0003 saniye sürdü.)

```
SELECT * FROM `cart_items`
```

Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıklala] [PHP kodu oluştur] [Yenile]

Tümünü göster | Satır sayısı: 25

Fazladan seçenekler

<input type="checkbox"/>	Düzenle	Kopyala	Sil	1	1	1	1	450.00	
<input type="checkbox"/>	Düzenle	Kopyala	Sil	2	1	2	1	120.00	
<input type="checkbox"/>	Düzenle	Kopyala	Sil	3	1	3	1	200.00	
<input type="checkbox"/>	Düzenle	Kopyala	Sil	4	2	4	1	350.00	
<input type="checkbox"/>	Düzenle	Kopyala	Sil	6	1	5	1	450.00	

Tümünü işaretle Séçilileri: Düzenle Kopyala Sil Dışa aktar

Figure 2.3.2b SQL query output

3. If Product Already in Cart (REQ-CART-02,04)

If the product the user wants to add is already in the cart, it updates the quantity and total price information of that product in the cart instead of creating a new product.

group5_db.cart_items tablosu üzerinde SQL sorgusunu/sorgularını çalıştır:

```
1 UPDATE cart_items
2 SET quantity = quantity + 1,
3     item_total = item_total + 450.00
4 WHERE cart_id = 1
5     AND product_id = 1;
6
```

Figure 2.3.3a SQL query

✓ Gösterilen satır 0 - 4 (toplam 5, Sorğu 0.0003 saniye sürdü.)

```
SELECT * FROM `cart_items`
```

Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıklar] [PHP kodu oluştur] [Yenile]

Tümünü göster | Satır sayısı: 25 ▾

Fazladan seçenekler

←→			id	cart_id	product_id	quantity	item_total
<input type="checkbox"/>	Düzenle	Kopyala	Sil	1	1	1	2 900.00
<input type="checkbox"/>	Düzenle	Kopyala	Sil	2	1	2	1 120.00
<input type="checkbox"/>	Düzenle	Kopyala	Sil	3	1	3	1 200.00
<input type="checkbox"/>	Düzenle	Kopyala	Sil	4	2	4	1 350.00
<input type="checkbox"/>	Düzenle	Kopyala	Sil	6	1	5	1 450.00

Figure 2.3.3b SQL query output

4. Detailed Shopping Cart (REQ-CART-04)

It fetches all the necessary data to show a detailed summary of the user's cart.

group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır: 

```
1 SELECT ci.id AS cart_item_id,
2       p.name AS product_name,
3       p.image_url,
4       ci.quantity,
5       p.price,
6       ci.item_total,
7       sc.cart_total
8 FROM shopping_carts sc
9 JOIN cart_items ci ON ci.cart_id = sc.id
10 JOIN products p   ON p.id = ci.product_id
11 WHERE sc.user_id = 1;
```

Figure 2.3.4a SQL query

✓ Gösterilen satır 0 - 3 (toplam 4, Sorgu 0.0005 saniye sürdü.)

```
SELECT ci.id AS cart_item_id, p.name AS product_name, p.image_url, ci.quantity, p.price, ci.item_total, sc.cart_total FROM shopping_carts sc JOIN cart_items ci ON ci.cart_id = sc.id JOIN products p ON p.id = ci.product_id WHERE sc.user_id = 1;
```

Profil gizle [Satır işi düzenlez] [Düzenle] [SQL'ı açıklar] [PHP kodu oluştur] [Yenile]

Tümünü göster Satır sayısı

Satırları süz:

cart_item_id	product_name	image_url	quantity	price	item_total	cart_total
1	Premium Dog Kibble 10kg	images/dog_kibble_10kg.jpg	2	450.00	900.00	770.00
2	Salmon Cat Treats 200g	images/salmon_cat_treats.jpg	1	120.00	120.00	770.00
3	Adjustable Dog Leash	images/adjustable_dog_leash.jpg	1	200.00	200.00	770.00
6	Bone Toy	images/bone_toy.jpg	1	200.00	450.00	770.00

Figure 2.3.4b SQL query output

5. Changing The Quantity of Products (REQ-CART-03,06)

When the user wants to change the quantity of a product on the cart page, it updates the cart information in the database.

group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır: 

```
1 UPDATE cart_items ci
2 JOIN products p ON ci.product_id = p.id
3 SET ci.quantity = 3,
4     ci.item_total = 3 * p.price
5 WHERE ci.id = 1
6     AND 3 <= p.stock_quantity;
7
```

Figure 2.3.5a SQL query

✓ Gösterilen satır 0 - 4 (toplam 5. Sorgu 0.0003 saniye sürdü.)

```
SELECT * FROM `cart_items`
```

Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıklar] [PHP kodu oluştur] [Yenile]

Tümünü göster | Satır sayısı: 25 ▾
[Fazladan seçenekler](#)

← T →			id	cart_id	product_id	quantity	item_total
<input type="checkbox"/>	 Düzenle	 Kopyala	 Sil	1	1	1	3 1350.00
<input type="checkbox"/>	 Düzenle	 Kopyala	 Sil	2	1	2	1 120.00
<input type="checkbox"/>	 Düzenle	 Kopyala	 Sil	3	1	3	1 200.00
<input type="checkbox"/>	 Düzenle	 Kopyala	 Sil	4	2	4	1 350.00
<input type="checkbox"/>	 Düzenle	 Kopyala	 Sil	6	1	5	1 450.00

Figure 2.3.5b SQL query output

6. Remove Item from Cart (REQ-CART-07)

Removes an item from the cart.

group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır: [i](#)

```
1 DELETE FROM cart_items WHERE id = 1;
```

Figure 2.3.6a SQL query

✓ Gösterilen satır 0 - 3 (toplam 4, Sorgu 0.0003 saniye sürdü.)

```
SELECT * FROM `cart_items`
```

Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıkla] [PHP kodu oluştur] [Yenile]

Tümünü göster | Satır sayısı: 25 ▾

Fazladan seçenekler

← T →			id	cart_id	product_id	quantity	item_total
<input type="checkbox"/>	Düzenle	Kopyala	Sil	2	1	2	120.00
<input type="checkbox"/>	Düzenle	Kopyala	Sil	3	1	3	200.00
<input type="checkbox"/>	Düzenle	Kopyala	Sil	4	2	4	350.00
<input type="checkbox"/>	Düzenle	Kopyala	Sil	6	1	5	450.00

Figure 2.3.6b SQL query output

Checkout and Order Validation

The screenshot shows the checkout process for Crawl Buds PetShop. At the top, there's a navigation bar with links for Home, Shop, About Us, Contact, a search icon, a shopping cart icon, and a user profile icon.

The main content area has a header "Checkout" and a progress bar showing steps 1. Shipping details, 2. Payment, and 3. Review & Confirm, with step 1 being active.

Shipping Details: Fields include Fullname (John Doe), Phone (+1(555)123-4567), Email (john.doe@example.com), Addressline (456 Pawsitive Street), City (Metropawlis), Postalcode (90210), Country (United States), and Shipping method (Express (1-2 business days)).

Order Summary: A table showing items and their details:

Item	Qty.	Price
Crested Gecko	1	\$150.00
Terrarium Starter Kit	1	\$89.99
Subtotal		\$239.99
Shipping		\$15.00
Total		\$254.99

Delivery information: Estimated delivery: June 28, 2024. Secure Checkout button.

Payment Method: Credit/Debit Card is selected. Other options: Cash on Delivery.

Cardholder name: Enter name as it appears on card.

Cardnumber: 0000 0000 0000 0000.

Expiry date: MM/YY (MM/YY).

CVV: 123.

Save this information for next time:

Buttons at the bottom: Back to cart and Continue to review.

Figure 2.4 Checkout and Order Page

1. Stock Control Before Checkout (REQ-ORD-04,05)

When the user proceeds with the purchase, this checks that the items in the cart do not exceed the stock quantity.

group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır: 

```
1 SELECT ci.product_id,
2         p.name,
3         ci.quantity,
4         p.stock_quantity
5 FROM cart_items ci
6 JOIN shopping_carts sc ON ci.cart_id = sc.id
7 JOIN products p ON ci.product_id = p.id
8 WHERE sc.user_id = 1
9     AND ci.quantity > p.stock_quantity;
10
11
12
```

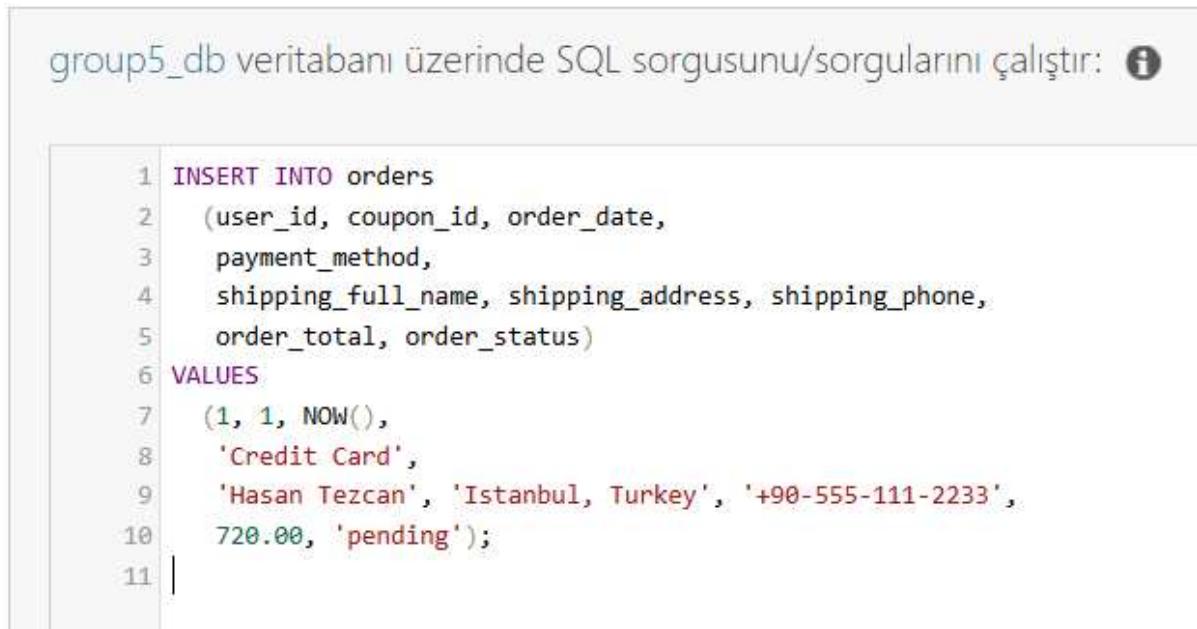
Figure 2.4.1a SQL query

Gösterilen satır 0 - 0 (toplam 1. Sorgu 0.0005 saniye sürdü.)					
SELECT ci.product_id, p.name, ci.quantity, p.stock_quantity FROM cart_items ci JOIN shopping_carts sc ON ci.cart_id = sc.id JOIN products p ON ci.product_id = p.id WHERE sc.user_id = 1 AND ci.quantity > p.stock_quantity;					
<input type="checkbox"/> Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıklia] [PHP kodu oluştur] [Yenile]					
<input checked="" type="checkbox"/> Tümünü göster [Satır sayısı: 25 ▾] <input type="checkbox"/> Fazladan seçenekler	Satırları sırala: Bu tabloda ara				
product_id name	<table border="1"><tr><td>5</td><td>Bone Toy</td><td>1</td><td>0</td></tr></table>	5	Bone Toy	1	0
5	Bone Toy	1	0		

Figure 2.4.1b SQL query output

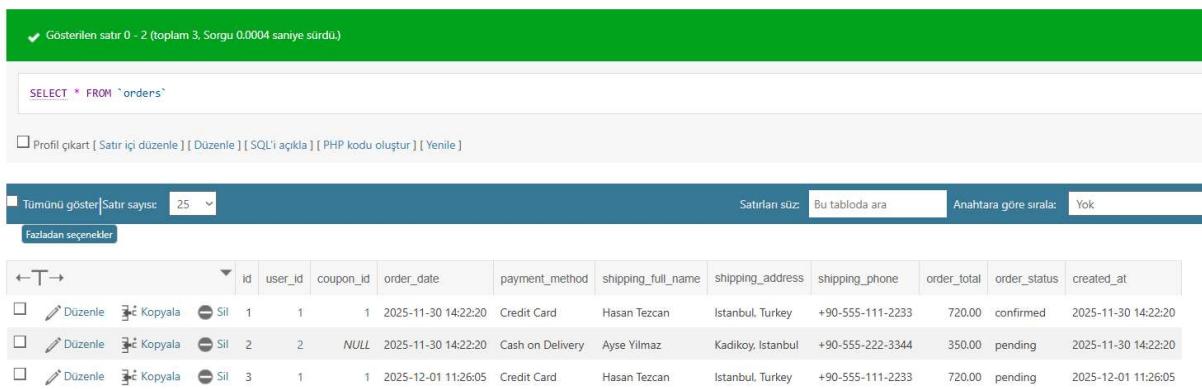
2. Inserting New Orders (REQ-ORD-02,03,06,09,11,12)

Adds the checkout order to the database.



```
1 INSERT INTO orders
2   (user_id, coupon_id, order_date,
3    payment_method,
4    shipping_full_name, shipping_address, shipping_phone,
5    order_total, order_status)
6 VALUES
7   (1, 1, NOW(),
8    'Credit Card',
9    'Hasan Tezcan', 'Istanbul, Turkey', '+90-555-111-2233',
10   720.00, 'pending');
```

Figure 2.4.2a SQL query



✓ Gösterilen satır 0 - 2 (toplam 3. Sorgu 0.0004 saniye sürdü.)

SELECT * FROM `orders`

Tümünü göster Satır sayısı: 25 Satırları sıza: Bu tabloda ara Anahtara göre sırala: Yok Fazladan seçenekler

□	Düzenle	Kopyala	Sil	1	1	1	2025-11-30 14:22:20	Credit Card	Hasan Tezcan	Istanbul, Turkey	+90-555-111-2233	720.00	confirmed	2025-11-30 14:22:20
□	Düzenle	Kopyala	Sil	2	2	NULL	2025-11-30 14:22:20	Cash on Delivery	Ayse Yilmaz	Kadikoy, Istanbul	+90-555-222-3344	350.00	pending	2025-11-30 14:22:20
□	Düzenle	Kopyala	Sil	3	1	1	2025-12-01 11:26:05	Credit Card	Hasan Tezcan	Istanbul, Turkey	+90-555-111-2233	720.00	pending	2025-12-01 11:26:05

Figure 2.4.2b SQL query output

3. Creating order_items from products in the cart (REQ-ORD-7)

Copies the cart rows for the created order to the order_items table.

```
group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır: ⓘ  
  
1 INSERT INTO order_items (order_id, product_id, quantity, unit_price, line_total)  
2 SELECT  
3     1 AS order_id,  
4     ci.product_id,  
5     ci.quantity,  
6     p.price AS unit_price,  
7     ci.quantity * p.price AS line_total  
8 FROM cart_items ci  
9 JOIN shopping_carts sc ON ci.cart_id = sc.id  
10 JOIN products p ON ci.product_id = p.id  
11 WHERE sc.user_id = 1;  
12
```

Figure 2.4.3a SQL query

✓ Gösterilen satır 0 – 6 (toplam 7, Sorgu 0.0003 saniye sürdü.)

```
SELECT * FROM `order_items`
```

Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıklar] [PHP kodu oluştur] [Yenile]

Tümünü göster | Satır sayısı: 25 ▾

Fazladan seçenekler

← T →			id	order_id	product_id	quantity	unit_price	line_total				
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1	1	1	1	450.00	450.00
<input type="checkbox"/>		Düzenle		Kopyala		Sil	2	1	2	1	120.00	120.00
<input type="checkbox"/>		Düzenle		Kopyala		Sil	3	1	3	1	200.00	200.00
<input type="checkbox"/>		Düzenle		Kopyala		Sil	4	2	4	1	350.00	350.00
<input type="checkbox"/>		Düzenle		Kopyala		Sil	5	1	2	1	120.00	120.00
<input type="checkbox"/>		Düzenle		Kopyala		Sil	6	1	3	1	200.00	200.00
<input type="checkbox"/>		Düzenle		Kopyala		Sil	7	1	5	1	200.00	200.00

Figure 2.4.3b SQL query output

4. Clean Shopping Cart After Checkout (REQ-CART-04)

Clears the cart after the purchase is completed.

group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır: 

```
1 DELETE ci FROM cart_items ci
2 JOIN shopping_carts sc ON ci.cart_id = sc.id WHERE sc.user_id = 1;
```

Figure 2.4.4a SQL query

✓ Gösterilen satır 0 - 0 (toplam 1, Sorgu 0.0003 saniye sürdü.)

```
SELECT * FROM `cart_items`
```

Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıklar] [PHP kodu oluştur] [Yenile]

Tümünü göster | Satır sayısı: 25 ▾
Fazladan seçenekler

← T →	id	cart_id	product_id	quantity	item_total
<input type="checkbox"/>  Düzenle  Kopyala  Sil	4	2	4	1	350.00

Figure 2.4.4b SQL query output

Customer Orders

The screenshot shows the 'My Orders' section of the Crawl Buds PetShop website. At the top, there's a search bar labeled 'Search by Order ID' and a filter menu with options like 'All', 'Pending', 'Shipped', 'Delivered', and 'Cancelled'. Below this, a list of five orders is displayed:

Order #	Status	Date	Total
#CB11032	Delivered	Oct 22, 2023	\$112.50
#CB10956	Delivered	Oct 15, 2023	\$45.00
#CB10871	Cancelled	Sep 30, 2023	\$78.20
#CB10799	Shipped	Sep 21, 2023	\$25.99
#CB10754	Pending	Sep 18, 2023	\$88.00

On the right, the 'Order Details' for order #CB11032 are shown. The status is 'Delivered'. The timeline shows three stages: 'Processing' (green), 'Shipped' (green), and 'Delivered' (green). The shipping address is listed as Alex Doe, 123 Pawsome Lane, Petville, PV 54321, United States. The payment method is Visa ending in **** 1234. The items ordered are Premium Dog Food, Durable Chew Toy, and Organic Catnip (3-pack). The total breakdown is Subtotal \$105.00, Shipping \$7.50, and Total \$112.50. A large green 'Cancel Order' button is present, with a note below it stating 'This order cannot be cancelled as it has already been delivered.'

Figure 2.5 Customer Orders Page

1. User's Orders (REQ-ORD-03,05)

Lists all orders of the user.

```
group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır: ⓘ  
  
1 | SELECT id AS order_id,  
2 |         order_date,  
3 |         order_total,  
4 |         order_status,  
5 |         payment_method  
6 | FROM orders WHERE user_id = 1  
7 | ORDER BY order_date DESC;  
8 |
```

Figure 2.5.1a SQL query

Sorgu kutusunu göster

✓ Gösterilen satır 0 - 1 (toplam 2, Sorgu 0.0005 saniye sürdü.) [order_date: 2025-12-01 11:26:05... - 2025-11-30 14:22:20..]

	order_id	order_date	order_total	order_status	payment_method
1	3	2025-12-01 11:26:05	720.00	pending	Credit Card
2	1	2025-11-30 14:22:20	720.00	confirmed	Credit Card

Tümünü göster Satır sayısı: 25 Satırları süz: Bu tabloda 2 Fazladan seçenekler

Figure 2.5.1b SQL query output

2. Filter Orders by Status (REQ-ORD-03)

SQL query to filter user orders based on order status.

```
group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır: ⓘ  
1 SELECT id, order_date, order_total, order_status  
2 FROM orders  
3 WHERE user_id = 1  
4   AND order_status = 'pending'  
5 ORDER BY order_date DESC;  
6
```

Figure 2.5.2a SQL query

Sorgu kutusunu göster

✓ Gösterilen satır 0 - 0 (toplam 1, Sorgu 0.0004 saniye sürdü) [order_date: 2025-12-01 11:26:05... - 2025-12-01 11:26:05...]

```
SELECT id, order_date, order_total, order_status FROM orders WHERE user_id = 1 AND order_status = 'pending' ORDER BY order_date DESC;
```

Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıkla] [PHP kodu oluştur] [Yenile]

Tümünü göster Satır sayısı: 25 ▾ Fazladan seçenekler

← T →	id	order_date	order_total	order_status
<input type="checkbox"/>	<input type="button" value="Düzenle"/>	<input type="button" value="Kopyala"/>	<input type="button" value="Sil"/>	3 2025-12-01 11:26:05 720.00 pending

Figure 2.5.2b SQL query output

3. Order Details (REQ-ORD-05,06,14)

When the user clicks on an order to learn its details, it brings up all the detailed information of that order.

group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır: 

```
1 SELECT
2     o.id AS order_id,
3     o.order_date,
4     o.order_total,
5     o.order_status,
6     o.payment_method,
7     o.shipping_full_name,
8     o.shipping_address,
9     o.shipping_phone,
10    p.name AS product_name,
11    oi.quantity,
12    oi.unit_price,
13    oi.line_total
14   FROM orders o
15  JOIN order_items oi ON oi.order_id = o.id
16  JOIN products p ON p.id = oi.product_id
17 WHERE o.user_id = 1 AND o.id = 1;
```

Figure 2.5.3a SQL query

✓ Gösterilen satır 0 - 5 (toplam 6. Sorgu 0.0008 saniye sürdü)

```
SELECT o.id AS order_id, o.order_date, o.order_total, o.order_status, o.payment_method, o.shipping_full_name, o.shipping_address, o.shipping_phone, p.name AS product_name, oi.quantity, oi.unit_price, oi.line_total FROM orders o JOIN order_items oi ON oi.order_id = o.id JOIN products p ON p.id = oi.product_id WHERE o.user_id = 1 AND o.id = 1;
```

Profil çkart [Satır içi düzenle] [Düzenle] [SQL'i açıklı] [PHP kodu oluştur] [Yenile]

Tümünü göster

order_id	order_date	order_total	order_status	payment_method	shipping_full_name	shipping_address	shipping_phone	product_name	quantity	unit_price	line_total
1	2025-11-30 14:22:20	720.00	confirmed	Credit Card	Hasan Tezcan	Istanbul, Turkey	+90-555-111-2233	Adjustable Dog Leash	1	200.00	200.00
1	2025-11-30 14:22:20	720.00	confirmed	Credit Card	Hasan Tezcan	Istanbul, Turkey	+90-555-111-2233	Adjustable Dog Leash	1	200.00	200.00
1	2025-11-30 14:22:20	720.00	confirmed	Credit Card	Hasan Tezcan	Istanbul, Turkey	+90-555-111-2233	Bone Toy	1	200.00	200.00
1	2025-11-30 14:22:20	720.00	confirmed	Credit Card	Hasan Tezcan	Istanbul, Turkey	+90-555-111-2233	Premium Dog Kibble 10kg	1	450.00	450.00
1	2025-11-30 14:22:20	720.00	confirmed	Credit Card	Hasan Tezcan	Istanbul, Turkey	+90-555-111-2233	Salmon Cat Treats 200g	1	120.00	120.00
1	2025-11-30 14:22:20	720.00	confirmed	Credit Card	Hasan Tezcan	Istanbul, Turkey	+90-555-111-2233	Salmon Cat Treats 200g	1	120.00	120.00

Figure 2.5.3b SQL query output

Product & Category Management

The screenshot shows the 'Products' section of the Crawl Buds Admin Panel. On the left, there's a sidebar with links: Dashboard, Orders, Products (which is selected and highlighted in blue), and Customers. Below that are Settings and Logout options. The main area has a header 'Products' with a search bar and buttons for 'Category' and 'Status'. A large table lists products with columns: PRODUCT NAME, CATEGORY, PRICE, STOCK, STATUS, and ACTIONS. The first four rows show: 'Premium Dog Leash' (Accessories, \$19.99, 120, Active), 'Organic Dog Food' (Food, \$45.50, 8, Low stock), 'Squeaky Chew Toy' (Toys, \$9.99, 250, Active), and 'Cozy Pet Bed' (Furniture, \$79.00, 0, Inactive). At the bottom, it says 'Showing 1-4 of 100' and has a pagination bar with buttons for Previous, 1, 2, 3 (which is highlighted in blue), ..., and Next.

Figure 2.6 Admin Products Page

1. Admin Product Management (REQ-ADM-PROD-04)

When an admin click on the products tab on the admin page, it brings up all the product details.

group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır: i

```
1 SELECT p.id,
2       p.name,
3       c.name AS category_name,
4       p.price,
5       p.stock_quantity,
6       p.is_active
7 FROM products p
8 JOIN categories c ON p.category_id = c.id
9 ORDER BY p.created_at DESC;
```

Figure 2.6.1a SQL query

✓ Gösterilen satır 0 - 4 (toplam 5. Sorgu 0.0006 saniye sürdü.)

```
SELECT p.id, p.name, c.name AS category_name, p.price, p.stock_quantity, p.is_active FROM products p JOIN categories c ON p.category_id = c.id ORDER BY p.created_at DESC;
```

Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıklıkla] [PHP kodu oluştur] [Yenile]

Tümünü göster | Satır sayısı: 25 | Satırları süz: Bu tablo | Fazladan seçenekler

ID	name	category_name	price	stock_quantity	is_active
3	Adjustable Dog Leash	Accessories	200.00	30	1
4	Cat Scratching Post	Cat Toys	350.00	20	1
5	Bone Toy	Cat Toys	200.00	0	1
1	Premium Dog Kibble 10kg	Dog Food	450.00	50	1
2	Salmon Cat Treats 200g	Dog Food	120.00	100	1

Figure 2.6.1b SQL query output

2. Add Product (REQ-ADM-PROD-01)

SQL query that allows the admin to add a new product to the catalog

group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır:

```

1 INSERT INTO products
2   (category_id, name, description, price, stock_quantity, image_url, is_active)
3 VALUES
4   (1, 'New Dog Toy', 'Durable toy for dogs', 120.00, 30,
5    'images/new_dog_toy.jpg', 1);
6

```

Figure 2.6.2a SQL query

✓ Gösterilen satır 0 - 5 (toplam 6. Sorgu 0.0004 saniye sürdü.)

```
SELECT * FROM `products`
```

Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıklıkla] [PHP kodu oluştur] [Yenile]

Tümünü göster | Satır sayısı: 25 | Satırları süz: Bu tablodan arama | Anahtara göre sırala: Yok | Fazladan seçenekler

	<input type="checkbox"/> Düzenle	<input type="checkbox"/> Kopyala	<input type="checkbox"/> Sil	ID	category_id	name	description	price	stock_quantity	image_url	is_active	created_at
<input type="checkbox"/>	<input type="checkbox"/> Düzenle	<input type="checkbox"/> Kopyala	<input type="checkbox"/> Sil	1	1	Premium Dog Kibble 10kg	High quality dry dog food for adult dogs.	450.00	50	images/dog_kibble_10kg.jpg	1	2025-11-30 14:22:20
<input type="checkbox"/>	<input type="checkbox"/> Düzenle	<input type="checkbox"/> Kopyala	<input type="checkbox"/> Sil	2	1	Salmon Cat Treats 200g	Soft salmon treats for cats.	120.00	100	images/salmon_cat_treats.jpg	1	2025-11-30 14:22:20
<input type="checkbox"/>	<input type="checkbox"/> Düzenle	<input type="checkbox"/> Kopyala	<input type="checkbox"/> Sil	3	3	Adjustable Dog Leash	Durable leash suitable for small and medium dogs.	200.00	30	images/adjustable_dog_leash.jpg	1	2025-11-30 14:22:20
<input type="checkbox"/>	<input type="checkbox"/> Düzenle	<input type="checkbox"/> Kopyala	<input type="checkbox"/> Sil	4	2	Cat Scratching Post	Sturdy scratching post with sisal rope.	350.00	20	images/cat_scratching_post.jpg	1	2025-11-30 14:22:20
<input type="checkbox"/>	<input type="checkbox"/> Düzenle	<input type="checkbox"/> Kopyala	<input type="checkbox"/> Sil	5	2	Bone Toy	Elastic toy for dogs to chew on	200.00	0	images/bone_toy.jpg	1	2025-11-30 14:22:20
<input type="checkbox"/>	<input type="checkbox"/> Düzenle	<input type="checkbox"/> Kopyala	<input type="checkbox"/> Sil	6	1	New Dog Toy	Durable toy for dogs	120.00	30	images/new_dog_toy.jpg	1	2025-12-01 11:37:05

Figure 2.6.2b SQL query output

3. Update Product (REQ-ADM-PROD-02,06)

SQL query that will allow the admin to edit and update a product's information

```
group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır: ⓘ  
1 UPDATE products  
2 SET name = 'Premium Dog Kibble 12kg',  
3     price = 500.00,  
4     stock_quantity = 60  
5 WHERE id = 6;  
6
```

Figure 2.6.3a SQL query

		Tümünü göster	Satır sayısı:	25	▼	Satırları süz:	Bu tabloda ara	Anahtarla göre sırala:	Yok	▼				
Fazladan seçenekler														
	← →		id	category_id	name	description	price	stock_quantity	image_url	is_active	created_at			
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1	1	Premium Dog Kibble 10kg	High quality dry dog food for adult dogs.	450.00	50	images/dog_kibble_10kg.jpg	1 2025-11-30 14:22:20
<input type="checkbox"/>		Düzenle		Kopyala		Sil	2	1	Salmon Cat Treats 200g	Soft salmon treats for cats.	120.00	100	images/salmon_cat_treats.jpg	1 2025-11-30 14:22:20
<input type="checkbox"/>		Düzenle		Kopyala		Sil	3	3	Adjustable Dog Leash	Durable leash suitable for small and medium dogs.	200.00	30	images/adjustable_dog_leash.jpg	1 2025-11-30 14:22:20
<input type="checkbox"/>		Düzenle		Kopyala		Sil	4	2	Cat Scratching Post	Sturdy scratching post with sisal rope.	350.00	20	images/cat_scratching_post.jpg	1 2025-11-30 14:22:20
<input type="checkbox"/>		Düzenle		Kopyala		Sil	5	2	Bone Toy	Elastic toy for dogs to chew on	200.00	0	images/bone_toy.jpg	1 2025-11-30 14:22:20
<input type="checkbox"/>		Düzenle		Kopyala		Sil	6	1	Premium Dog Kibble 12kg	Durable toy for dogs	500.00	60	images/new_dog_toy.jpg	1 2025-12-01 11:37:05

Figure 2.6.3b SQL query output

4. Deactivate Product (REQ-ADM-PROD-03,05)

A query that allows the admin to deactivate a product and take it off the list rather than deleting it.

```
group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır: ⓘ  
1 UPDATE products  
2 SET is_active = 0  
3 WHERE id = 4;  
4
```

Figure 2.6.4a SQL query

		Tümünü göster	Satır sayısı:	25	▼	Satırları süz:	Bu tablodada ara	Anahtara göre sırala:	Yok	▼				
Fazladan seçenekler														
←	→		id	category_id	name	description	price	stock_quantity	image_url	is_active	created_at			
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1	1	Premium Dog Kibble 10kg	High quality dry dog food for adult dogs.	450.00	50	images/dog_kibble_10kg.jpg	1 2025-11-30 14:22:20
<input type="checkbox"/>		Düzenle		Kopyala		Sil	2	1	Salmon Cat Treats 200g	Soft salmon treats for cats.	120.00	100	images/salmon_cat_treats.jpg	1 2025-11-30 14:22:20
<input type="checkbox"/>		Düzenle		Kopyala		Sil	3	3	Adjustable Dog Leash	Durable leash suitable for small and medium dogs.	200.00	30	images/adjustable_dog_leash.jpg	1 2025-11-30 14:22:20
<input type="checkbox"/>		Düzenle		Kopyala		Sil	4	2	Cat Scratching Post	Sturdy scratching post with sisal rope.	350.00	20	images/cat_scratching_post.jpg	0 2025-11-30 14:22:20
<input type="checkbox"/>		Düzenle		Kopyala		Sil	5	2	Bone Toy	Elastic toy for dogs to chew on	200.00	0	images/bone_toy.jpg	1 2025-11-30 14:22:20
<input type="checkbox"/>		Düzenle		Kopyala		Sil	6	1	Premium Dog Kibble 12kg	Durable toy for dogs	500.00	60	images/new_dog_toy.jpg	1 2025-12-01 11:37:05

Figure 2.6.4b SQL query output

5. Check Any Products Before Delete Category (REQ-ADM-PROD-07,08)

A SQL query that checks whether a category contains products before deleting it. This query is required to notify the administrator that a product in a category cannot be deleted when that category is listed.

group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır: 

```
1 SELECT COUNT(*) AS product_count  
2 FROM products  
3 WHERE category_id = 2;  
4
```

Figure 2.6.5a SQL query

SQL sorgunuz başarılı olarak çalıştırıldı.

```
SELECT COUNT(*) AS product_count FROM products WHERE category_id = 2;
```

Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıkla] [PHP kodu oluştur] [Yenile]

Fazladan seçenekler

product_count

2

Figure 2.6.5b SQL query output

Admin Order Management

The screenshot shows the 'Orders' section of the admin panel. On the left, there's a sidebar with links for Dashboard, Orders (which is selected and highlighted in blue), Products, and Customers. The main area has a title 'Orders' with filter buttons for All, Pending, Processing, Shipped, Delivered, and Cancelled. It includes search and date range filters. A table lists 20 orders with columns for Order ID, Customer, Date, Total, Payment Status, Order Status, and Actions. The first few rows show details like Order ID #10524 for Eleanor Pena (Paid, Delivered), #10523 for Cody Fisher (Paid, Shipped), #10522 for Jenny Wilson (Paid, Processing), #10521 for Jacob Jones (Pending, Pending), and #10520 for Ralph Edwards (Refunded, Cancelled). At the bottom, it says 'Showing 1 to 5 of 20 results' and has a page navigation bar.

Figure 2.7 Admin Orders Page

1. List All Orders (REQ-ADM-ORD-01,02)

SQL query that allows the admin to list orders.

```
group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır: ⓘ  
  
1 SELECT o.id AS order_id,  
2     o.order_date,  
3     o.order_total,  
4     o.order_status,  
5     u.username AS customer_name,  
6     o.shipping_address  
7 FROM orders o  
8 JOIN users u ON o.user_id = u.id  
9 ORDER BY o.order_date DESC;
```

Figure 2.7.1a SQL query

<pre>SELECT o.id AS order_id, o.order_date, o.order_total, o.order_status, u.username AS customer_name, o.shipping_address FROM orders o JOIN users u ON o.user_id = u.id ORDER BY o.order_date DESC;</pre>
<input type="checkbox"/> Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıklı] [PHP kodu oluştur] [Yenile]
<input checked="" type="checkbox"/> Tümünü göster! Satır sayısı: 25 ▾ <input type="button" value="Fazladan seçenekler"/>
Satırları süz: <input type="text"/> Bu tabloda ara

order_id	order_date	order_total	order_status	customer_name	shipping_address
3	2025-12-01 11:26:05	720.00	pending	Hasan Tezcan	Istanbul, Turkey
1	2025-11-30 14:22:20	720.00	confirmed	Hasan Tezcan	Istanbul, Turkey
2	2025-11-30 14:22:20	350.00	pending	Ayse Yılmaz	Kadıkoy, İstanbul

Figure 2.7.1b SQL query output

2. Change Order Status (REQ-ADM-ORD-03,05,06)

Changes the status of an order.

group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır:
<pre>1 UPDATE orders 2 SET order_status = 'shipped' 3 WHERE id = 2; 4</pre>

Figure 2.7.2a SQL query

<pre>SELECT * FROM `orders`</pre>
<input type="checkbox"/> Profil çıkart [Satır içi düzenle] [Düzenle] [SQL'i açıklı] [PHP kodu oluştur] [Yenile]
<input checked="" type="checkbox"/> Tümünü göster! Satır sayısı: 25 ▾ <input type="button" value="Fazladan seçenekler"/>
Satırları süz: <input type="text"/> Bu tabloda ara
Anahtara göre sırala: <input type="text"/> Yok
<input type="button" value="← T →"/> □ <input type="button" value="Düzenle"/> <input type="button" value="Kopyala"/> <input type="radio"/> Sil 1 1 1 2025-11-30 14:22:20 Credit Card Hasan Tezcan İstanbul, Turkey +90-555-111-2233 720.00 confirmed 2025-11-30 14:22:20
<input type="button" value="Düzenle"/> <input type="button" value="Kopyala"/> <input type="radio"/> Sil 2 2 NULL 2025-11-30 14:22:20 Cash on Delivery Ayse Yılmaz Kadıkoy, İstanbul +90-555-222-3344 350.00 shipped 2025-11-30 14:22:20
<input type="button" value="Düzenle"/> <input type="button" value="Kopyala"/> <input type="radio"/> Sil 3 1 1 2025-12-01 11:26:05 Credit Card Hasan Tezcan İstanbul, Turkey +90-555-111-2233 720.00 pending 2025-12-01 11:26:05
↑ <input type="checkbox"/> Tümünü işaretle <input type="button" value="Seçilileri:"/> <input type="button" value="Düzenle"/> <input type="button" value="Koova"/> <input type="button" value="Sil"/> ↓ Disa aktar

Figure 2.7.2b SQL query output

3. Stock Update When Order Cancelled (REQ-ADM-ORD-05,06)

If an order is canceled, the stock count is increased again based on the products in that order.

group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır:

```
1 UPDATE products p
2 JOIN order_items oi ON oi.product_id = p.id
3 SET p.stock_quantity = p.stock_quantity + oi.quantity
4 WHERE oi.order_id = 1;
5
6 UPDATE orders
7 SET order_status = 'cancelled'
8 WHERE id = 2;
9
```

Figure 2.7.3a SQL query

SELECT * FROM `orders`

Profil çıkart [Satır içi düzenley] [Düzenle] [SQL'i açıklá] [PHP kodu oluştur] [Yenile]

Tümünü göster Satır sayısı: 25

Satırları süz: Bu tabloda ara Anahtara göre sırala: Yok

Fazladan seçenekler

	İD	User ID	Coupon ID	Order Date	Payment Method	Shipping Full Name	Shipping Address	Shipping Phone	Order Total	Order Status	Created At
<input type="checkbox"/> Düzenle Kopyala Sil	1	1	1	2025-11-30 14:22:20	Credit Card	Hasan Tezcan	Istanbul, Turkey	+90-555-111-2233	720.00	confirmed	2025-11-30 14:22:20
<input type="checkbox"/> Düzenle Kopyala Sil	2	2	NULL	2025-11-30 14:22:20	Cash on Delivery	Ayse Yilmaz	Kadikoy, Istanbul	+90-555-222-3344	350.00	cancelled	2025-11-30 14:22:20
<input type="checkbox"/> Düzenle Kopyala Sil	3	1	1	2025-12-01 11:26:05	Credit Card	Hasan Tezcan	Istanbul, Turkey	+90-555-111-2233	720.00	pending	2025-12-01 11:26:05

Figure 2.7.3b SQL query output orders table

SELECT * FROM `products`

Profil çıkart [Satır içi düzenley] [Düzenle] [SQL'i açıklá] [PHP kodu oluştur] [Yenile]

Tümünü göster Satır sayısı: 25

Satırları süz: Bu tabloda ara Anahtara göre sırala: Yok

Fazladan seçenekler

	ID	Category ID	Name	Description	Price	Stock Quantity	Image URL	Is Active	Created At
<input type="checkbox"/> Düzenle Kopyala Sil	1	1	Premium Dog Kibble 10kg	High quality dry dog food for adult dogs.	450.00	51	images/dog_kibble_10kg.jpg	1	2025-11-30 14:22:20
<input type="checkbox"/> Düzenle Kopyala Sil	2	1	Salmon Cat Treats 200g	Soft salmon treats for cats.	120.00	101	images/salmon_cat_treats.jpg	1	2025-11-30 14:22:20
<input type="checkbox"/> Düzenle Kopyala Sil	3	3	Adjustable Dog Leash	Durable leash suitable for small and medium dogs.	200.00	31	images/adjustable_dog_leash.jpg	1	2025-11-30 14:22:20
<input type="checkbox"/> Düzenle Kopyala Sil	4	2	Cat Scratching Post	Sturdy scratching post with sisal rope.	350.00	20	images/cat_scratching_post.jpg	0	2025-11-30 14:22:20
<input type="checkbox"/> Düzenle Kopyala Sil	5	2	Bone Toy	Elastic toy for dogs to chew on	200.00	1	images/bone_toy.jpg	1	2025-11-30 14:22:20
<input type="checkbox"/> Düzenle Kopyala Sil	6	1	Premium Dog Kibble 12kg	Durable toy for dogs	500.00	60	images/new_dog_toy.jpg	1	2025-12-01 11:37:05

Figure 2.7.3c SQL query output products table

Promotions & Coupon Management

1. Insert New Coupon (REQ-COUP-01)

Creates a new coupon in the database.

group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır: ⓘ

```
1 INSERT INTO coupons
2   (code, description, discount_amount, min_order_amount,
3    start_date, end_date, max_usage, times_used,
4    is_active, created_by_admin_id)
5 VALUES
6   ('WELCOME50', 'Welcome coupon for new users',
7    50.00, 200.00,
8    '2025-01-01', '2025-12-31',
9    100, 0, 1, 1);
10
```

Figure 2.8.1a SQL query

The screenshot shows the results of a SELECT query on the 'coupons' table. The table has columns: id, code, description, discount_amount, min_order_amount, start_date, end_date, max_usage, times_used, is_active, created_by_admin_id, and created_at. There are two rows of data:

	İd	Kodu	Açıklama	Discount_Amount	Min_Order_Amount	Start Date	End Date	Max_Usage	Times_Used	Is_Active	Created_By_Admin_Id	Created At
<input type="checkbox"/>	2	FREESHIP30	Free shipping for orders over 150 TL	30.00	150.00	2025-03-01	2025-09-30	0	0	1	2	2025-11-30 14:22:20
<input type="checkbox"/>	4	WELCOME50	Welcome coupon for new users	50.00	200.00	2025-01-01	2025-12-31	100	0	1	1	2025-12-01 16:36:29

Figure 2.8.1b SQL query output

2. Update Coupon or Deactivate (REQ-COUP-02)

Deactivates an existing coupon instead of deleting it.

group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır: ⓘ

```
1 UPDATE coupons
2 SET is_active = 0
3 WHERE id = 4;
```

Figure 2.8.2a SQL query

SELECT * FROM `coupons`																		
<input type="checkbox"/> Profil çikart [Satır içi düzenle] [Düzenle] [SQL'i açkla] [PHP kodu oluştur] [Yenile]																		
<input type="checkbox"/> Tümünü göster <input type="text" value="25"/>				Satırları süz: <input type="text" value="Bu tabloda ara"/>		Anahtara göre sırala: <input type="text" value="Yok"/>												
Fazladan seçenekler																		
←→		id	code	description	discount_amount	min_order_amount	start_date	end_date	max_usage	times_used	is_active	created_by_admin_id	created_at					
<input type="checkbox"/>		Düzenle		Kopyala		Sil	2	FREESHIP30	Free shipping for orders over 150 TL	30.00	150.00	2025-03-01	2025-09-30	0	0	1	2	2025-11-30 14:22:20
<input type="checkbox"/>		Düzenle		Kopyala		Sil	4	WELCOME50	Welcome coupon for new users	50.00	200.00	2025-01-01	2025-12-31	100	0	0	1	2025-12-01 16:36:29

Figure 2.8.2b SQL query output

3. Coupon Validation (REQ-COUP-03,04,05)

If a coupon is used during a purchase, verify the requirements of this coupon.

group5_db veritabanı üzerinde SQL sorgusunu/sorgularını çalıştır:

```

1 SELECT *
2 FROM coupons
3 WHERE code = 'WELCOME50'
4   AND is_active = 1
5   AND CURDATE() BETWEEN start_date AND end_date
6   AND 300.00 >= min_order_amount
7   AND (max_usage = 0 OR times_used < max_usage);
  
```

Figure 2.8.3a SQL query

SELECT * FROM coupons WHERE code = 'WELCOME50' AND is_active = 1 AND CURDATE() BETWEEN start_date AND end_date AND 300.00 >= min_order_amount AND (max_usage = 0 OR times_used < max_usage);																		
<input type="checkbox"/> Profil çikart [Satır içi düzenle] [Düzenle] [SQL'i açkla] [PHP kodu oluştur] [Yenile]																		
<input type="checkbox"/> Tümünü göster <input type="text" value="25"/>				Satırları süz: <input type="text" value="Bu tabloda ara"/>														
Fazladan seçenekler																		
←→		id	code	description	discount_amount	min_order_amount	start_date	end_date	max_usage	times_used	is_active	created_by_admin_id	created_at					
<input type="checkbox"/>		Düzenle		Kopyala		Sil	4	WELCOME50	Welcome coupon for new users	50.00	200.00	2025-01-01	2025-12-31	100	0	0	1	2025-12-01 16:36:29

Figure 2.8.3b SQL query output