

DI31003 - Database Systems

Coursework 1 - Cover Sheet

TEAM NUMBER: Group 8

COMPANY NAME: Summit Gear & Adventures

COMPANY SLOGAN: Well-equipped, Exploring the Infinite.

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Company description / Specification report

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E-R diagram

Number of pages: 4-5 pages

User interface designs

Number of pages: 14 pages

SQL CREATE statements

Number of pages: 6-7 pages

Total pages: 29 pages

We confirm that the team members have read and understood the University policy on Academic Misconduct.

Company description / Specification report

This report claims the structure and operations of the company and how our design was implemented based on this.

Part 1. Company Profile

The company is named "Summit Gear & Adventures". It is a professional outdoor sports equipment chain brand in the UK. Since its establishment in 2018, it has built a network of physical stores in five core cities in Scotland. The company takes "Well-equipped, Exploring the Infinite" as its core concept and slogan of striving, and provides equipment solutions for outdoor sports enthusiasts of all ages from 18 to 65. Our company supports both online platform ordering and offline store purchasing.

The organizational structure adopts a two-level management model:

The headquarters management team consists of the business manager, inventory manager and HR manager, undertaking the functions of strategic decision-making, resource coordination and standardized control. Each branch store implements standardized configuration, which is equipped with several staffs. This structure not only ensures the headquarters' centralized control over core resources but also grants branches the space to operate flexibly, thus forming a management advantage of strategic unity and execution flexibility.

Part 2. Operational Mechanism and its Impacts on Design

2.1 Organizational Structure and Data Foundation

The two-level management model of the company directly determines the structure design of the database. The database needs to maintain this hierarchical structure through entity relationships to ensure the effective implementation of data isolation and access control.

The branch information table serves as the top-level structure anchor of the database, fully documenting the static information of five physical stores, including the branch number (primary key), branch name, city of location, and specific address. This table is the basis for associating all branch-related transaction data, accurately reflecting the company's distributed operation characteristics through a "one-to-many" relationship.

The employee information table stores detailed information of all employees. A key design is to set the "branch number" as a foreign key, establishing a mandatory association of "one branch having multiple employees, and each employee belonging to only one branch". This association not only supports precise data reporting but also provides a foundation for implementing job-based permission control.

2.2 Product and Supply Chain Management

This part of the business covers the entire life cycle of products from procurement to inventory management. The database design needs to achieve integrated management throughout the entire process.

a. Procurement and Classification System:

The supplier table independently manages information of multiple suppliers. By using the "supplier number" (primary key), company name, and contact person, etc., the supplier data is separated from the product data to avoid information redundancy.

The main product table, as the core record of all goods, establishes a one-to-many relationship with the primary suppliers through the "supplier number" (foreign key).

The product classification table adopts a hierarchical design, achieving a multi-level classification structure through self-referencing of the "parent category number". This design enables enterprises to flexibly adjust

the classification hierarchy without modifying the database structure. Products are associated with specific categories through the "category number" (foreign key).

b. Procurement process management:

The procurement and replenishment process, which is uniformly managed by the headquarters' purchasing manager, is implemented through the following table:

The purchase order table, as the core of the procurement business, records the overall information of the order, including the supplier (foreign key), the employee who placed the order (foreign key), and the receiving branch (foreign key). The "order status" field tracks the progress of the procurement execution throughout the process.

The purchase detail table serves as an associative table to address the many-to-many relationship where "one purchase order contains multiple products and one product can appear in multiple purchase orders".

c. Inventory management mechanism:

Each of the five branches manages its own independent inventory.

The inventory record table, as the core of inventory management, resolves the many-to-many relationship between branches and products (one branch can store multiple products, and one product can be stored in multiple branches). This table records the actual inventory quantity of each product in a specific branch by associating the "branch number" and "product number". To ensure data accuracy, a unique constraint is set for the combination of (product number, branch number) to prevent duplicate inventory records for the same product in the same branch.

2.3 Sales and Customer Relationship

This module supports the company's core revenue generation process - selling products to customers. The design focus is on ensuring transaction integrity and the accurate traceability of historical data.

The customer information table stores all customer records. To support customer relationship management and accurately identify repeat customers, unique constraints are set on the "mobile phone number" field. This key design prevents the generation of duplicate customer records, ensuring that each customer has a unique and reliable identification marker.

a. Sales transaction process:

The sales order table, serving as the transaction header table, records the key information of each sale, and is associated with customer ID, employee ID, and branch ID.

The order detail table serves as an associative table to address the many-to-many relationship of "one sales order containing multiple products". This table links the "order number" and the "product number" and specifically records the "unit price of the commodity" at the time of sale. Storing the unit price in the order detail is a key design to ensure historical accuracy. Even if the retail price in the product master table changes later, the original transaction price is still fully retained, ensuring the accuracy of all historical sales reports.

b. Performance optimization design:

The sales order table particularly includes summary fields such as "total order amount", "discount amount", and "actual received amount". The discount amount is determined by the user's membership status stored in the membership level table and the usage of points based on the user's point transaction table. By pre-storing these summary values, the database can quickly generate various financial reports. This design strikes a balance between normalization principles and query performance.

E-R diagram



Brief of E-Commerce ER-Diagram

1. Document Overview

This brief outlines the ER-Diagram's core components: entity definitions, relationship cardinalities, and constraint rules, focusing on key details to support e-commerce workflows.

2. Core Entity Definitions

2.1 Organizational Management

2.1.1 Branch (Store)

- PK: branch_id (auto-increment INT, unique store ID).
- Key Fields:
 - manager_name (VARCHAR(50), NOT NULL): Store manager's name (no FK link).
 - branch_name/phone (VARCHAR, UNIQUE + NOT NULL): Unique store name/contact.
 - address/city/opening_date (NOT NULL): Location, region, and launch date.

2.1.2 Employee (Staff)

- PK: emp_id (auto-increment INT, unique staff ID).
- Key Fields:
 - first_name/last_name/email/phone (NOT NULL; email/phone UNIQUE): Contact/identity details.
 - position (VARCHAR(50), NOT NULL): Job role (e.g., "Sales Associate").
 - branch_id (FK → Branch.branch_id, NOT NULL): Links to assigned store.
 - hire_date/salary (NOT NULL): Start date and monthly compensation.

2.1.3 Customer (User)

- PK: customer_id (auto-increment INT, unique user ID).
- Key Fields:
 - membership_id (FK → Membership.membership_id, DEFAULT 0 + NOT NULL): Ties to loyalty tier.
 - first_name/last_name/email/phone (NOT NULL; email/phone UNIQUE): Contact details.
 - address/city/postcode (NOT NULL): Shipping information.
 - register_date/total_points (NOT NULL; points DEFAULT 0): Sign-up date and loyalty points.

2.2 Product & Supply Chain

2.2.1 Supplier (Vendor)

- PK: supplier_id (auto-increment INT, unique vendor ID).

- Key Fields:
 - name (VARCHAR(100), UNIQUE + NOT NULL): Unique vendor name.
 - contact_person/phone/email/address (NOT NULL): Vendor contact/location.

2.2.2 Product (Merchandise)

- PK: product_id (auto-increment INT, unique product ID).
- Key Fields:
 - name/brand/model/category (NOT NULL): Product identification.
 - cost_price/retail_price (DECIMAL, NOT NULL): Internal cost and selling price.
 - supplier_id (FK → Supplier.supplier_id, NOT NULL): Links to primary vendor.
 - status (ENUM: Active/Discontinued, NOT NULL): Availability control.

2.2.3 Inventory (Stock)

- PK: inventory_id (auto-increment INT, unique stock ID).
- Key Fields:
 - branch_id (FK → Branch.branch_id) + product_id (FK → Product.product_id): Ties stock to store/product.
 - Composite Unique: branch_id + product_id (one stock record per product-store).
 - quantity (INT, DEFAULT 0 + NOT NULL): Current stock level.
 - last_update/unit_price (NOT NULL): Stock update time and unit cost.

2.3 Order & Transaction

2.3.1 Sales_Order (Customer Order)

- PK: order_id (auto-increment INT, unique order ID).
- Key Fields:
 - customer_id (FK → Customer.customer_id, NULLABLE): Links to customer (NULL for guests).
 - emp_id/branch_id (FK, NOT NULL): Links to staff and store.
 - order_date/total_amount (NOT NULL): Order time and total value.
 - discount_amount (DEFAULT 0) + status (ENUM: Pending/Paid/Cancelled/Completed) + payment_method (ENUM: Cash/Card/PayPal): Discount, lifecycle, and payment type.

2.3.2 Sales_Order_Item (Order Line)

- PK: so_item_id (auto-increment INT, unique line ID).
- Key Fields:

- order_id (FK → Sales_Order.order_id) + product_id (FK → Product.product_id): Ties line to order/product.
- quantity/unit_price/total_price (NOT NULL): Line item quantity, price, and total.

2.3.3 Purchase_Order (Vendor Order)

- PK: po_id (auto-increment INT, unique PO ID).
- Key Fields:
 - supplier_id/emp_id/branch_id (FK, NOT NULL): Links to vendor, staff, and receiving store.
 - po_date/total_cost (NOT NULL): PO time and total cost.
 - status (ENUM: Pending/Shipped/Received/Cancelled) + payment_method (ENUM: Cheque/Transfer/PayPal): Lifecycle and payment type.

2.3.4 Purchase_Order_Item (PO Line)

- PK: po_item_id (auto-increment INT, unique line ID).
- Key Fields:
 - po_id (FK → Purchase_Order.po_id) + product_id (FK → Product.product_id): Ties line to PO/product.
 - quantity/unit_cost/total_cost (NOT NULL): Line item quantity, cost, and total.

2.3.5 Points_Transaction (Loyalty)

- PK: trans_id (auto-increment INT, unique transaction ID).
- Key Fields:
 - customer_id (FK → Customer.customer_id, NOT NULL): Links to customer.
 - order_id (FK → Sales_Order.order_id, NULLABLE): Ties to order (NULL for manual adjustments).
 - point_change/trans_date_time/balance_after (NOT NULL): Points change, time, and post-transaction balance.

2.4 Membership (Loyalty Tier)

- PK: membership_id (auto-increment INT, unique tier ID).
- Key Fields:
 - membership_name (VARCHAR(50), UNIQUE + NOT NULL): Tier name (e.g., "Gold Member").
 - discount_rate/point_rate/min_consume (NOT NULL): Discount, points multiplier, and upgrade threshold.

3. Entity Relationships

3.1 One-to-Many (1:M)

- Branch → Employee/Inventory/Sales_Order/Purchase_Order; Supplier → Product; Customer → Sales_Order/Points_Transaction; Employee → Sales_Order/Purchase_Order; Sales_Order → Sales_Order_Item; Purchase_Order → Purchase_Order_Item; Product → Sales_Order_Item/Purchase_Order_Item/Inventory; Membership → Customer.

3.2 Resolved Many-to-Many (M:N)


- Sales_Order ↔ Product (via Sales_Order_Item); Purchase_Order ↔ Product (via Purchase_Order_Item).

4. Constraint Rules


- PK: All entities have unique auto-increment INT PKs.
- FK: Enforce relationships (most non-null; exceptions: guest checkout, manual points).
- Unique: Prevent duplicates (e.g., store name, customer email; composite unique for inventory).
- Default/Non-Null: Core fields (e.g., product name, order date) are non-null; default values for points/inventory/membership.

User interface designs

Supplier Dashboard

Summit Gear & Adventures

Supplier Portal

The North Face Ltd.

Contact: Sarah Johnson

Serving 5 UK Stores

Messages

Notifications

Logout

Dashboard

Purchase Orders

- Active Orders
- Pending Review
- Order History

Shipment Management

- Ready to Ship
- In Transit
- Delivered

Product Catalog

- Product List
- Price Management
- Add Product

Payments & Invoices

Sales Reports

Settings

Supplier Dashboard

22 Oct 2025

Welcome Back, The North Face Ltd.

Active Purchase Orders

8

View All

Awaiting Shipment

3

Process Shipment

Pending Payment

£12,500

2 Invoices

Supplier Rating

4.8/5

Excellent

Recent Purchase Orders

View All Orders

Order No	Order Date	Expected Delivery	Amount	Status	Action
PO-00047	12 Oct 2025	22 Oct 2025	£2,500	Pending Confirmation	Confirm
PO-00045	1 Oct 2025	15 Oct 2025	£5,200	Shipped	Track
PO-00043	25 Sep 2025	5 Oct 2025	£3,800	Delivered	View

Action Required

PO-00047 Awaiting Confirmation

Confirm

PO-00046 Ready to Ship

Update Shipping Info

5 Products Need Price Update

Update Prices

Sales Performance

This Month: £45,000

Last Month: £38,500

Growth: ↑ 16.9%

View Detailed Report

Top Products

1. North Face Tent

2. Sleeping Bag Pro

3. Elite Backpack

4. Rain Jacket

5. Camping Stove

Summit Gear & Adventures

Inventory Management Console

Notifications

Inventory Admin

London Store - UK

Inventory Overview

PRODUCT MANAGEMENT

Product List

Category Management

Stock Check

PROCUREMENT

Purchase Orders

Supplier Management

Total Products

1,245

SKUs - Total Value £120K

Low Stock Items

23

Need Immediate Restocking

Pending Purchase Orders

8

Total Amount £24.5K

Monthly Inbound Value

£56.8K

385 Items Received

Quick Actions

Create Purchase Order

Order from suppliers

Goods Receipt

Register new arrivals

Supplier Management

Manage supplier info

Stock Inquiry

Check product stock

Low Stock Alert

Export ExcelBulk Purchase

SKU	Product Name	Current Stock	Safety Stock	Stock Rate	Suggested Restock	Supplier	Action
SKU-001234	Hiking Boots (Size 42)	5	20	25% <div></div>	30 units	Salomon	Purchase Now
SKU-002156	Waterproof Jacket (L)	12	15	80% <div></div>	25 units	Columbia	Purchase Now
SKU-003087	Outdoor Backpack (50L)	3	15	20% <div></div>	20 units	Osprey	Purchase Now
SKU-004521	Camping Tent (4-Person)	2	10	20% <div></div>	15 units	North Face	Purchase Now
SKU-005678	GPS Navigator	8	10	80% <div></div>	12 units	Garmin	Purchase Now

Pending Purchase Orders

#PO-2025-1027-001Pending Approval

Supplier

Quantity

Order Amount

Expected Arrival

ApproveDetailsReject

Salomon

30 units (3 SKUs)

£3,897

2025-11-05

#PO-2025-1027-002Pending Approval

Supplier

Quantity

Order Amount

Expected Arrival

ApproveDetailsReject

Columbia

25 units (2 SKUs)

£4,998

2025-11-03

#PO-2025-1026-005Approved

Supplier

Quantity

Order Amount

Expected Arrival

Details

Osprey

20 units (2 SKUs)

£2,798

2025-11-01

Key Suppliers

Salomon

Professional Hiking Equipment

15Products

A+Rating

Columbia

Outdoor Clothing & Gear

22Products

A+Rating

Manager Dashboard—Business Manager

 Summit Gear & Adventures

Business Management Console

 Notifications

 Business Admin

 London Store - UK

 Business Overview

SALES MANAGEMENT

 Sales Analytics


 Order Management

 Returns


CUSTOMER MANAGEMENT

 Customer List

 Membership

 Loyalty Program

OTHER

 Promotions



Business Management Dashboard

Sales Analytics · Customer Management · Marketing



 Today's Sales

£4,778

⬆️ +15.3% vs Yesterday

 Today's Orders

87

⬆️ +8.2% vs Yesterday

 New Customers (Month)

156

⬆️ +22.5% vs Last Month

 Monthly Revenue






£120K


⬆️ +18.7% vs Last Month

 Today's Sales Orders

Export Excel

Create Order

ORDER ID	CUSTOMER	PRODUCT	QTY	AMOUNT	STAFF	TIME	STATUS
#ORD-001	James Smith 	Professional Hiking Boots	1	£129	Tom Green	14:35	Completed
#ORD-002	Emma Taylor 	Waterproof Jacket	2	£399	Sarah Johnson	14:28	Completed
#ORD-003	David Brown 	Outdoor Backpack Set	1	£89	Mike Davis	14:15	Processing
#ORD-004	Sophie Wilson 	Camping Tent	1	£249	Tom Green	13:58	Completed
#ORD-005	Oliver Johnson 	Sleeping Bag	2	£179	Sarah Johnson	13:42	Completed

 Customer Tier Analysis

 Gold Members
85 Customers

£42.8K

 Silver Members
214 Customers

£53.6K

 Regular Members
1,024 Customers

£25.6K

 Top 5 Products

#1 Professional Hiking Boots (Salomon)
Sold: 158 units

£20.5K

#2 Waterproof Jacket (Columbia)
Sold: 142 units

£18.9K

#3 Outdoor Backpack (Osprey)
Sold: 126 units

£16.3K

#4 Camping Tent (North Face)
Sold: 98 units

£14.7K


#5 GPS Navigator (Garmin)
Sold: 87 units

£13.2K

Manager Dashboard—HR Manager

[illegible]

Customer Dashboard—Shopping Cart

**Summit Gear & Adventures**

Gear Up, Explore Beyond

Home

Products

Stores

My Account

Cart

2

James Wilson

Gold

Logout

Points: 2,450

**Shopping Cart**

You have 3 items in your cart

Gold Member Discount: 15% OFF



North Face

Tent - 4 Person

SKU: TNT001

Professional 4-person camping tent, waterproof and durable

£450.00

Quantity: 1

-15%

£382.50







Sleeping Bag Pro

SKU: SBP002

Professional sleeping bag, warm and comfortable

£280.00

Quantity: 1

-15%

£238.00







LED Headlamp Ultra

SKU: LHL004

High-brightness LED headlamp

£45.00

Quantity: 2

-15%

£76.50





Order Summary

Subtotal (3 items):

£775.00

Member Discount (15%):

-£116.25

Use Points?

You have 2,450 Points (worth £24.50)

☒ Don't use points

☐ Use 500 points (-£5.00)

☐ Use 1,000 points (-£10.00)

☐ Use 2,000 points (-£20.00)

Points Used:

-£0.00

Total:

£658.75

You will earn: +658 Points

Delivery Method

☒ Reserve & Collect

Choose Store:

London

Ready for collection in 2-4 hours

☐ Home Delivery (+£5.99)

Estimated delivery in 3-5 business days

Proceed to Checkout →

← Continue Shopping

You May Also Like



Elite Backpack

£153.00

Add to Cart



Camping Stove

£106.25

Add to Cart



Camping Mat

£72.25

Add to Cart



Multi-Tool Kit

£46.75

Add to Cart

About Us

Company Info

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Careers

Customer Service

Shipping Info

Returns Policy

FAQs

Member Center

My Account

Order History

Points Management

Contact Info


info@summitgear.co.uk

0131 123 4567

Edinburgh, Scotland

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Customer Dashboard—Shopping Mall

**Summit Gear & Adventures**

Gear Up, Explore Beyond

James Wilson

Gold

Logout

Points: 2,450

Home


Products

Stores

My Account

Cart

2

**Browse Products > Camping Gear**

Explore our curated outdoor equipment collection

Search Products...

Search

Sort by:

Best Selling

Filters

Category

☒ Camping Gear

☐ Climbing Gear

☐ Outdoor Clothing

☐ Outdoor Footwear

☐ Electronics

☐ Backpacks

☐ Lighting Equipment

☐ Tools & Accessories

Brand

☒ The North Face

☐ Black Diamond

☐ MSR

☐ Garmin

☐ Patagonia

Price Range

0

1000

Apply


Stock Status

☒ In Stock Only

☐ Show All

Clear All Filters

Showing 1-12 of 48 products



North Face Tent - 4人

£450.00

£382.50


-15% Gold

★★★★★ (125)

In Stock

Add to Cart

View Details



Sleeping Bag Pro

£280.00

£238.00


-15% Gold

★★★★★ (87)

In Stock

Add to Cart

View Details



Camping Stove MSR

£125.00

£106.25


-15% Gold

★★★★★ (64)

Low Stock

Add to Cart

View Details



LED Headlamp Ultra

£45.00

£38.25


-15% Gold

★★★★★ (156)

In Stock

Add to Cart

View Details



Elite Backpack 65L

£180.00

£153.00


-15% Gold

★★★★★ (203)

In Stock

Add to Cart

View Details



Camping Mat Deluxe

£85.00

£72.25


-15% Gold

★★★★★ (78)

In Stock

Add to Cart

View Details



Cooler Box 50L

£120.00

£102.00


-15% Gold

★★★★★ (92)

In Stock

Add to Cart

View Details



Multi-Tool Survival Kit

£55.00

£46.75


-15% Gold

★★★★★ (134)

In Stock

Add to Cart

View Details



Water Filter Portable

£65.00

£55.25


-15% Gold

★★★★★ (178)

In Stock

Add to Cart

View Details



Fire Starter Kit

£28.00

£23.80


-15% Gold

★★★★★ (89)

In Stock

Add to Cart

View Details



Compass Professional

£35.00

£29.75


-15% Gold

★★★★★ (67)

In Stock

Add to Cart

View Details



Emergency Radio

£75.00

£63.75

-15% Gold

★★★★★ (54)

Low Stock

Add to Cart

View Details

Previous

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About Us

Company Info

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Careers

Customer Service

Shipping Info

Returns Policy

FAQs

Member Center

My Account

Order History

Points Management

Contact Info


info@summitgear.co.uk

0131 123 4567

Edinburgh, Scotland

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Customer Dashboard—Store Information

**Summit Gear & Adventures**

Gear Up, Explore Beyond

James Wilson

Gold

Logout

Points: 2,450

Home

Products

Stores

My Account

Cart

Store Locations

Find our stores across the United Kingdom

Search by city or postcode...

Search

London Store

Featured Store

Contact Information

Address: 123 Oxford Street, London, W1D 2HG

Phone: 020 7123 4567

Email: london@summitgear.co.uk

Opening Hours

Monday - Friday: 9:00 AM - 8:00 PM

Saturday: 9:00 AM - 7:00 PM

Sunday: 10:00 AM - 6:00 PM

Store Manager

David Wilson

Staff: 23 employees

Get Directions

Call

Email

Manchester Store

Contact Information

Address: 45 Market Street, Manchester, M1 1WR

Phone: 0161 234 5678

Email: manchester@summitgear.co.uk

Opening Hours

Monday - Friday: 9:00 AM - 7:00 PM

Saturday: 9:00 AM - 6:00 PM

Sunday: 10:00 AM - 5:00 PM

Store Manager

Emma Thompson

Staff: 25 employees

Get Directions

Call

Email

Edinburgh Store

Contact Information

Address: 78 Princes Street, Edinburgh, EH2 2ER

Phone: 0131 456 7890

Email: edinburgh@summitgear.co.uk

Opening Hours

Monday - Friday: 9:00 AM - 7:00 PM

Saturday: 9:00 AM - 6:00 PM

Sunday: 10:00 AM - 5:00 PM

Store Manager

James Anderson

Staff: 18 employees

Get Directions

Call

Email

Birmingham Store

Contact Information

Address: 56 New Street, Birmingham, B2 4BU

Phone: 0121 567 8901

Email: birmingham@summitgear.co.uk

Opening Hours

Monday - Friday: 9:00 AM - 7:00 PM

Saturday: 9:00 AM - 6:00 PM

Sunday: 10:00 AM - 5:00 PM

Store Manager

Sarah Mitchell

Staff: 28 employees

Get Directions

Call

Email

Cardiff Store

Contact Information

Address: 89 Queen Street, Cardiff, CF10 2GR

Phone: 029 2034 5678

Email: cardiff@summitgear.co.uk

Opening Hours

Monday - Friday: 9:00 AM - 7:00 PM

Saturday: 9:00 AM - 6:00 PM

Sunday: 10:00 AM - 5:00 PM

Store Manager

Michael Davies

Staff: 21 employees

Get Directions

Call

Email

Our UK Network

5 UK Stores


115 Total Staff

7 Days Open Weekly

3 Countries (England, Scotland, Wales)

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† Serving 5 Stores Across the UK

Customer Dashboard—Product Information

Summit Gear & Adventures

Gear Up, Explore Beyond

James Wilson

Gold

Points: 2,450

Logout

Home


Products

Stores

My Account

Cart

Home > Products > Camping Gear > North Face Tent



North Face Tent

★★★★★ (125 Reviews)

SKU: TNT001

£382.50

Original Price: £450.00

Gold Member enjoys 15% discount! Save £67.50

In Stock - 15 units available at London Store

Quantity:

-

 1

+

Add to Cart

Product Features

Waterproof and windproof design for all weather

Lightweight materials, easy to carry

Quick setup system, ready in 5 minutes

Comfortable accommodation for 3-4 people

Includes storage bag and stakes

2-year warranty service

Free Delivery - On orders over £50

30-Day Returns - Hassle-free if not satisfied

Click & Collect - Save on delivery costs

Payment Plans - 3 interest-free installments available

Description

Specifications

Reviews

Product Description

The North Face Tent is the perfect companion for your outdoor adventures. Utilizing the latest waterproof technology and lightweight materials, this tent provides comfortable shelter in all extreme weather conditions.

Design Philosophy: We understand the demanding requirements outdoor enthusiasts have for their gear. This tent has undergone hundreds of field tests, proving its exceptional performance in the harsh climate of the Scottish Highlands.


Key Advantages

- High-strength aluminum alloy frame, lightweight yet sturdy
- 3000mm waterproof coating, effectively prevents rain penetration
- Ventilation system design reduces condensation buildup
- Multiple storage pockets for convenient gear organization
- Reflective ropes for easy nighttime identification

Suitable Scenarios

Whether mountaineering, hiking, camping, or wilderness exploration, this tent meets all your needs. It provides a comfortable living environment in temperatures ranging from -10°C to 35°C.

Related Products




Sleeping Bag Pro

£238.00

★★★★★ (87)

Add to Cart




Camping Stove

£125.00

★★★★★ (65)

Add to Cart




LED Headlamp

£38.25

★★★★★ (156)

Add to Cart



Elite Backpack

£180.00

★★★★★ (92)

Add to Cart

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Customer Dashboard—My Account



Gear Up, Explore Beyond

James Wilson

Gold

Logout

Points: 2,450

Home

Products

Stores

My Account

Cart2

Menu

Overview

Order History

Membership

Points Management

Profile

Addresses

Change Password

Account Overview

Welcome back, James! 🎉

Gold Member

15% Discount

2,450 Points

Worth £24.50

24 Orders

This Year

£12,450

Spent This Year

Membership Info

Member Level: Gold Member

Joined: January 2023

Last Order: 15 October 2025

Next Level Benefits

You're already at the highest level!

Continue enjoying Gold Member exclusive benefits

About Us

Company Info

Contact Us

Careers

Customer Service

Shipping Info

Returns Policy

FAQs

Member Center

My Account

Order History

Points Management

Contact Info


info@summitgear.co.uk

0131 123 4567

Edinburgh, Scotland

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Customer Dashboard—Customer Information

**Summit Gear & Adventures**

London Store

Tom Green (EMP-002)

2025-10-27 | 18:04

My Sales

Logout

Sales (POS)

Customers

Stock Check

Returns


My Performance

Customer Management

Search customer name, email or phone...

Search

New Customer



John Doe

john.doe@email.com | 07700 900123

Gold Member

Points: 2,450


Last Visit: 15 Oct 2025

Total Spent: £12,450

View Profile

Purchase History

New Order



Jane Smith

jane.smith@email.com | 07700 900456

Silver Member

Points: 850


Last Visit: 12 Oct 2025

Total Spent: £3,200

View Profile

Purchase History

New Order



Bob Wilson

bob.wilson@email.com | 07700 900789

Regular Member

Points: 125

Last Visit: 18 Oct 2025

Total Spent: £450

View Profile

Purchase History

New Order

Store Staff Dashboard

Business Overview

SALES MANAGEMENT

Sales Analytics

Order Management

Returns

CUSTOMER MANAGEMENT

Customer List

Membership

Loyalty Program

OTHER

Promotions



Business Management Dashboard



Sales Analytics · Customer Management · Marketing



Today's Sales

£4,758

⬆️ +15.3% vs Yesterday



Today's Orders

87

⬆️ +8.2% vs Yesterday



New Customers (Month)

156

⬆️ +22.5% vs Last Month



Monthly Revenue

£120K

⬆️ +18.7% vs Last Month



Today's Sales Orders

Export Excel

Create Order

ORDER ID	CUSTOMER	PRODUCT	QTY	AMOUNT	STAFF	TIME	STATUS
#ORD-001	James Smith Gold	Professional Hiking Boots	1	£129	Tom Green	14:35	Completed
#ORD-002	Emma Taylor Silver	Waterproof Jacket	2	£399	Sarah Johnson	14:28	Completed
#ORD-003	David Brown Regular	Outdoor Backpack Set	1	£89	Mike Davis	14:15	Processing
#ORD-004	Sophie Wilson Gold	Camping Tent	1	£249	Tom Green	13:58	Completed
#ORD-005	Oliver Johnson Silver	Sleeping Bag	2	£179	Sarah Johnson	13:42	Completed



Customer Tier Analysis



Gold Members

85 Customers

£42.8K



Silver Members

214 Customers

£53.6K



Regular Members

1,024 Customers

£25.6K



Top 5 Products

#1

Professional Hiking Boots (Salomon)

Sold: 158 units

£20.5K

#2

Waterproof Jacket (Columbia)

Sold: 142 units

£18.9K

#3

Outdoor Backpack (Osprey)

Sold: 126 units

£16.3K

#4

Camping Tent (North Face)

Sold: 98 units

£14.7K

#5

GPS Navigator (Garmin)

Sold: 87 units

£13.2K

Staff Dashboard—Order Processing

 New Sales Order

✖ Clear Cart

 Product Search

Enter product name or scan barcode...

All Categories

CLR002 - Climbing Rope Pro
£65.00 | Stock: 12

+ Add

GPS003 - GPS Garmin
£320.00 | Stock: 8

+ Add

SBG004 - Sleeping Bag Pro
£280.00 | Stock: 15

+ Add

LED005 - LED Headlamp
£45.00 | Stock: 25

+ Add

BPK006 - Elite Backpack
£180.00 | Stock: 18

+ Add

 Check Stock

Product Details

 Current Order

Customer:

Select Customer...

Cart is empty, please add products

Subtotal: £0.00

Member Discount (0%): -£0.00

Total: £0.00

Points Earned: +0

 Checkout

Staff Dashboard—Returns Processing

London Store

Tom Green (EMP-002)

2025-10-27 | 18:06

My Sales

Logout

Sales (POS)

Customers

Stock Check

Returns

My Performance

Returns Processing

Step 1: Find Original Order

Order Number:

Enter order number...

Search

OR

Customer:

Search customer...

Found Order: SO-2025-00123

Date: 1 Oct 2025 | Customer: John Doe

Item	Quantity	Price	Return?
North Face Tent	1	£450.00	<input checked="" type="checkbox"/>
Climbing Rope	2	£130.00	<input type="checkbox"/>
GPS Garmin	1	£320.00	<input type="checkbox"/>

Return Reason:

☒ Changed Mind (within 30 days)

☐ Quality Issue/Defect

☐ Wrong Size/Color

☐ Exchange for Other Product

☐ Other:

Item Condition Check:

☒ Original Packaging

☒ Unused

☒ Has Receipt

Refund Amount: £450.00

Points Deducted: -450

Process Return

Exchange

Cancel

Staff Dashboard—Customer Information

Customer Management

Search customer name, email or phone...

 Search

+ New Customer

 John Doe

john.doe@email.com | 07700
900123

Gold Member

Points: 2,450

Last Visit: 15 Oct 2025

Total Spent: £12,450

 [View Profile](#) **Purchase History**

New Order

 Jane Smith

jane.smith@email.com | 07700
900456

Silver Member

Points: 850

Last Visit: 12 Oct 2025

Total Spent: £3,200

[View Profile](#)

 Purchase History

New Order

 Bob Wilson

bob.wilson@email.com | 07700
900789

Regular Member

Points: 125

Last Visit: 18 Oct 2025

Total Spent: £450

[View Profile](#) **Purchase History**

New Order

SQL CREATE statements

```
DROP DATABASE IF EXISTS summit_gear_db;
```

```
CREATE DATABASE summit_gear_db CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci;
```

```
USE summit_gear_db;
```

```
-- 1. Branch
```

```
CREATE TABLE Branch (  
    branch_id INT AUTO_INCREMENT PRIMARY KEY,  
    branch_name VARCHAR(100) NOT NULL,  
    city VARCHAR(50) NOT NULL,  
    address VARCHAR(200) NOT NULL,  
    phone VARCHAR(20) NOT NULL,  
    manager_name VARCHAR(100),  
    opening_date DATE NOT NULL,  
    INDEX idx_city (city)  
) ENGINE=InnoDB;
```

```
-- 2. Employee
```

```
CREATE TABLE Employee (  
    employee_id INT AUTO_INCREMENT PRIMARY KEY,  
    name VARCHAR(50) NOT NULL,  
    email VARCHAR(100) NOT NULL UNIQUE,  
    phone VARCHAR(20) NOT NULL,  
    position VARCHAR(50) NOT NULL,  
    salary DECIMAL(10,2) NOT NULL,  
    hire_date DATE NOT NULL,  
    branch_id INT NOT NULL,  
    FOREIGN KEY (branch_id) REFERENCES Branch(branch_id)  
        ON DELETE RESTRICT ON UPDATE CASCADE  
) ENGINE=InnoDB;
```


-- 3. Membership

```
CREATE TABLE Membership (  
    membership_id INT AUTO_INCREMENT PRIMARY KEY,  
    membership_name VARCHAR(20) NOT NULL UNIQUE,  
    discount_rate DECIMAL(5,2) NOT NULL,  
    point_rate DECIMAL(5,2) NOT NULL,  
    min_consume DECIMAL(10,2) NOT NULL  
) ENGINE=InnoDB;
```

-- 4. Customer

```
CREATE TABLE Customer (  
    customer_id INT AUTO_INCREMENT PRIMARY KEY,  
    name VARCHAR(50) NOT NULL,  
    email VARCHAR(100) NOT NULL UNIQUE,  
    phone VARCHAR(20) NOT NULL UNIQUE,  
    address VARCHAR(200),  
    city VARCHAR(50),  
    postcode VARCHAR(10),  
    membership_id INT DEFAULT NULL,  
    total_points INT NOT NULL DEFAULT 0,  
    registration_date DATE NOT NULL,  
    FOREIGN KEY (membership_id) REFERENCES Membership(membership_id)  
        ON DELETE RESTRICT ON UPDATE CASCADE  
) ENGINE=InnoDB;
```

-- 5. Supplier

```
CREATE TABLE Supplier (  
    supplier_id INT AUTO_INCREMENT PRIMARY KEY,  
    name VARCHAR(100) NOT NULL,  
    contact_person VARCHAR(100) NOT NULL,  
    email VARCHAR(100) NOT NULL UNIQUE,
```



```
phone VARCHAR(20) NOT NULL UNIQUE,  
address VARCHAR(200),  
city VARCHAR(50),  
country VARCHAR(50) NOT NULL DEFAULT 'UK'  
) ENGINE=InnoDB;
```

-- 6. Product

```
CREATE TABLE Product (  
    product_id INT AUTO_INCREMENT PRIMARY KEY,  
    sku VARCHAR(50) NOT NULL UNIQUE,  
    name VARCHAR(50) NOT NULL,  
    brand VARCHAR(50) NOT NULL,  
    category VARCHAR(30) NOT NULL,  
    cost_price DECIMAL(10,2) NOT NULL,  
    retail_price DECIMAL(10,2) NOT NULL,  
    weight_kg DECIMAL(6,2),  
    dimensions VARCHAR(50),  
    color VARCHAR(30),  
    size VARCHAR(20),  
    supplier_id INT NOT NULL,  
    status ENUM('Active','Discontinued') NOT NULL DEFAULT 'Active',  
    FOREIGN KEY (supplier_id) REFERENCES Supplier(supplier_id)  
        ON DELETE RESTRICT ON UPDATE CASCADE,  
    INDEX idx_brand (brand)  
) ENGINE=InnoDB;
```

-- 7. Inventory

```
CREATE TABLE Inventory (  
    inventory_id INT AUTO_INCREMENT PRIMARY KEY,  
    product_id INT NOT NULL,  
    branch_id INT NOT NULL,
```



```

quantity INT NOT NULL DEFAULT 0,

last_updated DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP

    ON UPDATE CURRENT_TIMESTAMP,

location VARCHAR(50),

FOREIGN KEY (product_id) REFERENCES Product(product_id)

    ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (branch_id) REFERENCES Branch(branch_id)

    ON DELETE CASCADE ON UPDATE CASCADE,

UNIQUE KEY uk_product_branch (product_id, branch_id)

) ENGINE=InnoDB;

```

-- 8. Sales_Order

```

CREATE TABLE Sales_Order (

    order_id INT AUTO_INCREMENT PRIMARY KEY,

    order_number VARCHAR(20) NOT NULL UNIQUE,

    customer_id INT NOT NULL,

    employee_id INT NOT NULL,

    branch_id INT NOT NULL,

    order_date DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,

    total_amount DECIMAL(10,2) NOT NULL,

    discount_amount DECIMAL(10,2) NOT NULL DEFAULT 0,

    final_amount DECIMAL(10,2) NOT NULL,

    payment_method VARCHAR(20) NOT NULL,

    status ENUM('Completed','Returned','Cancelled') NOT NULL DEFAULT 'Completed',

    points_earned INT NOT NULL DEFAULT 0,

    payment_status ENUM('Unpaid','Partial','Paid') NOT NULL DEFAULT 'Unpaid',

    FOREIGN KEY (customer_id) REFERENCES Customer(customer_id)

        ON DELETE RESTRICT ON UPDATE CASCADE,

    FOREIGN KEY (employee_id) REFERENCES Employee(employee_id)

        ON DELETE RESTRICT ON UPDATE CASCADE,

    FOREIGN KEY (branch_id) REFERENCES Branch(branch_id)

```


ON DELETE RESTRICT ON UPDATE CASCADE

) ENGINE=InnoDB;

-- 9. Sales_Order_Item

CREATE TABLE Sales_Order_Item (

so_item_id INT AUTO_INCREMENT PRIMARY KEY,

order_id INT NOT NULL,

product_id INT NOT NULL,

quantity INT NOT NULL,

unit_price DECIMAL(10,2) NOT NULL,

discount DECIMAL(10,2) NOT NULL DEFAULT 0,

total_price DECIMAL(10,2) NOT NULL,

FOREIGN KEY (order_id) REFERENCES Sales_Order(order_id)

ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (product_id) REFERENCES Product(product_id)

ON DELETE RESTRICT ON UPDATE CASCADE

) ENGINE=InnoDB;

-- 10. Purchase_Order

CREATE TABLE Purchase_Order (

po_id INT AUTO_INCREMENT PRIMARY KEY,

po_number VARCHAR(20) NOT NULL UNIQUE,

supplier_id INT NOT NULL,

employee_id INT NOT NULL,

branch_id INT NOT NULL,

order_date DATE NOT NULL,

total_amount DECIMAL(12,2) NOT NULL,

status ENUM('Pending','Confirmed','Shipped','Received','Cancelled') NOT NULL DEFAULT 'Pending',

payment_status ENUM('Unpaid','Partial','Paid') NOT NULL DEFAULT 'Unpaid',

FOREIGN KEY (supplier_id) REFERENCES Supplier(supplier_id)

ON DELETE RESTRICT ON UPDATE CASCADE,

FOREIGN KEY (employee_id) REFERENCES Employee(employee_id)

ON DELETE RESTRICT ON UPDATE CASCADE,

FOREIGN KEY (branch_id) REFERENCES Branch(branch_id)

ON DELETE RESTRICT ON UPDATE CASCADE

) ENGINE=InnoDB;

-- 11. Purchase_Order_Item

CREATE TABLE Purchase_Order_Item (

po_item_id INT AUTO_INCREMENT PRIMARY KEY,

po_id INT NOT NULL,

product_id INT NOT NULL,

quantity INT NOT NULL,

unit_price DECIMAL(10,2) NOT NULL,

total_price DECIMAL(10,2) NOT NULL,

FOREIGN KEY (po_id) REFERENCES Purchase_Order(po_id)

ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (product_id) REFERENCES Product(product_id)

ON DELETE RESTRICT ON UPDATE CASCADE

) ENGINE=InnoDB;

-- 12. Points_Transaction

CREATE TABLE Points_Transaction (

trans_id INT AUTO_INCREMENT PRIMARY KEY,

customer_id INT NOT NULL,

order_id INT,

point_change INT NOT NULL,

trans_type ENUM('Earn','Redeem','Expire','Adjust') NOT NULL,

trans_date DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,

balance_after INT NOT NULL,

FOREIGN KEY (customer_id) REFERENCES Customer(customer_id)

ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (order_id) REFERENCES Sales_Order(order_id)

ON DELETE SET NULL ON UPDATE CASCADE

) ENGINE=InnoDB;