

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

Word count (900-1000): 974 Number of pages: 2-3 pages

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:

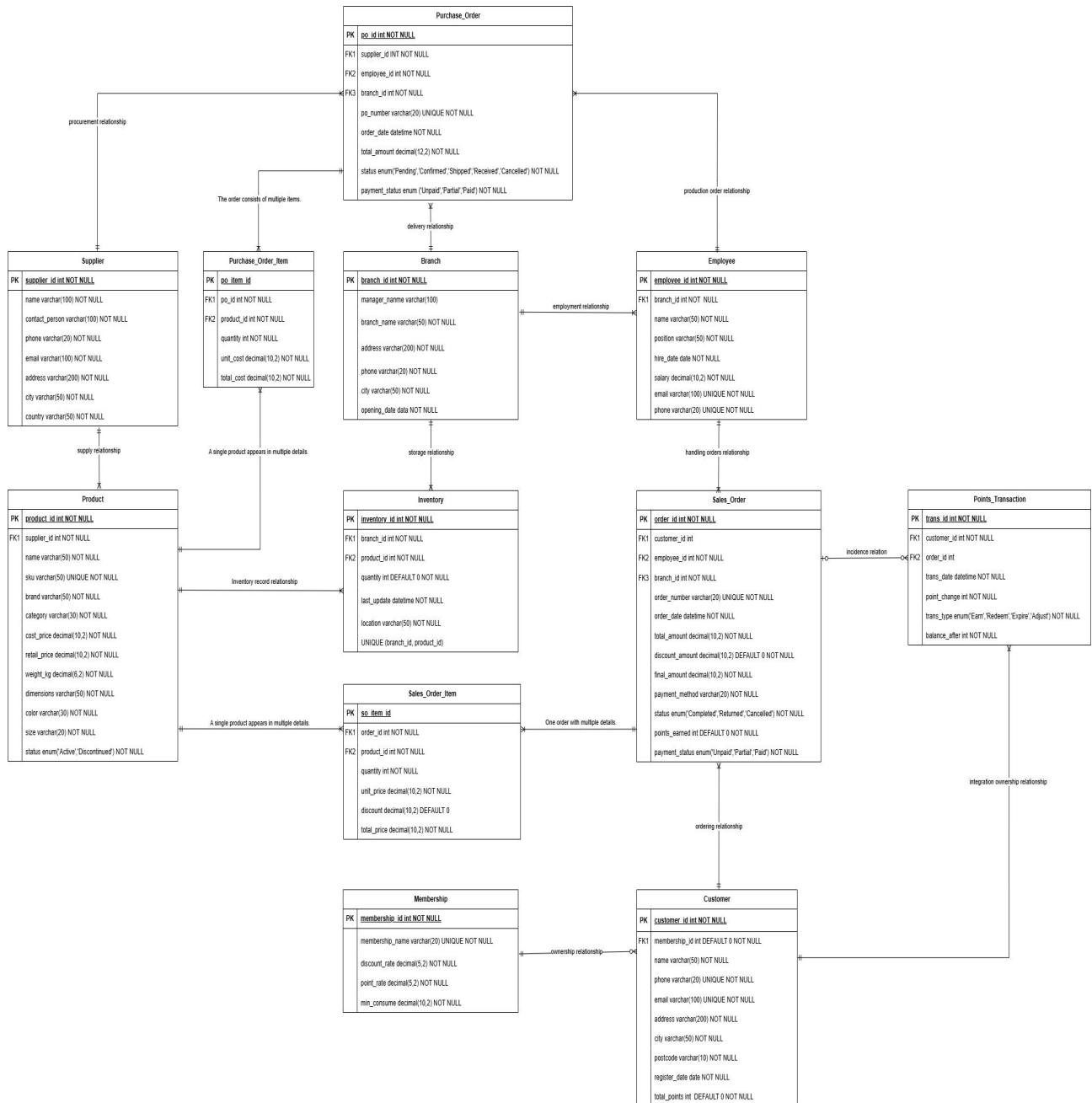
The sales order table, serving as the transaction header table, records the key information of each sale, and is associated with customer ID, employee ID, and branch ID.

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:

- o order_id (FK → Sales_Order.order_id) + product_id (FK → Product.product_id): Ties line to order/product.
- o 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:
 - o supplier_id/emp_id/branch_id (FK, NOT NULL): Links to vendor, staff, and receiving store.
 - o po_date/total_cost (NOT NULL): PO time and total cost.
 - o 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:
 - o po_id (FK → Purchase_Order.po_id) + product_id (FK → Product.product_id): Ties line to PO/product.
 - o 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:
 - o customer_id (FK → Customer.customer_id, NOT NULL): Links to customer.
 - o order_id (FK → Sales_Order.order_id, NULLABLE): Ties to order (NULL for manual adjustments).
 - o 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:
 - o membership_name (VARCHAR(50), UNIQUE + NOT NULL): Tier name (e.g., "Gold Member").
 - o 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

The dashboard is designed for suppliers like The North Face Ltd. It features a dark sidebar on the left and a light main content area. The top right includes a header with the company name, contact info, and navigation links for messages, notifications, and logout.

Left Sidebar:

- Summit Gear & Adventures** (Logo)
- Supplier Portal
- 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**

Main Content Area:

Supplier Dashboard

22 Oct 2025

Welcome Back, The North Face Ltd.

Key Metrics:

- 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:

- North Face Tent
- Sleeping Bag Pro
- Elite Backpack
- Rain Jacket
- Camping Stove

Manager Dashboard—Inventory Manager

Summit Gear & Adventures
Inventory Management Console

Notifications (1) Inventory Admin
London Store - UK

Inventory Management Dashboard

Product Management - Stock Monitoring - Procurement

Total Products
1,245
 SKUs - Total Value £120K

Low Stock Items
23
 Need Immediate Restocking

Pending Purchase Orders
8
 Total Amount £24.5K

Quick Actions

Cart
[Create Purchase Order](#)
 Order from suppliers

Envelope
[Goods Receipt](#)
 Register new arrivals

Factory
[Supplier Management](#)
 Manage supplier info

Magnifying Glass
[Stock Inquiry](#)
 Check product stock

Low Stock Alert

SKU	PRODUCT NAME	CURRENT STOCK	SAFETY STOCK	STOCK RATE	SUGGESTED RESTOCK	SUPPLIER	ACTION
SKU-001234	Hiking Boots (Size 42)	5	20	25%	30 units	Salomon	Purchase Now
SKU-002156	Waterproof Jacket (L)	12	15	80%	25 units	Columbia	Purchase Now
SKU-003087	Outdoor Backpack (50L)	3	15	20%	20 units	Osprey	Purchase Now
SKU-004521	Camping Tent (4-Person)	2	10	20%	15 units	North Face	Purchase Now
SKU-005678	GPS Navigator	8	10	80%	12 units	Garmin	Purchase Now

Pending Purchase Orders

#PO-2025-1027-001 Pending Approval

Supplier: Salomon
Quantity: 30 units (3 SKUs)
Order Amount: £3,897
Expected Arrival: 2025-11-05

[Approve](#) [Details](#) [Reject](#)

#PO-2025-1027-002 Pending Approval

Supplier: Columbia
Quantity: 25 units (2 SKUs)
Order Amount: £4,998
Expected Arrival: 2025-11-03

[Approve](#) [Details](#) [Reject](#)

#PO-2025-1026-005 Approved

Supplier: Osprey
Quantity: 20 units (2 SKUs)
Order Amount: £2,798
Expected Arrival: 2025-11-01

[Details](#)

Key Suppliers

Salomon
 Professional Hiking Equipment
 15 Products **A+** Rating

Columbia
 Outdoor Clothing & Gear
 22 Products **A+** Rating

Manager Dashboard—Business Manager

Summit Gear & Adventures
Business Management Console

Notifications 5 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

Business Management Dashboard

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 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)	£20.5K	Sold: 158 units
#2 Waterproof Jacket (Columbia)	£18.9K	Sold: 142 units
#3 Outdoor Backpack (Osprey)	£16.3K	Sold: 126 units
#4 Camping Tent (North Face)	£14.7K	Sold: 98 units
#5 GPS Navigator (Garmin)	£13.2K	Sold: 87 units

Manager Dashboard—HR Manager

The dashboard is titled "HR Management Dashboard" and includes the following sections:

- HR Overview:** Includes links to Staff List, Add Staff, Performance Review, and Schedule Management.
- Key Metrics:** Displays Active Staff (23), Today's Attendance (18/23, 78.3%), Excellent Staff (8, A+ Rating This Month), and New This Month (2, 0 Departures).
- Quick Actions:** Buttons for Add Staff (Register new staff), Schedule Management (Arrange staff shifts), Performance Review (Evaluate staff performance), and Staff Details (View staff information).
- Today's On-Duty Staff:** Lists staff members: Tom Green (On Duty), Sarah Johnson (On Duty), Mike Davis (On Duty), Emma Taylor (On Leave), and James Smith (On Duty).
- Staff List:** A table showing staff information, hire date, performance rating, work status, and action buttons. The data is as follows:

STAFF INFORMATION	HIRE DATE	PERFORMANCE RATING	WORK STATUS	ACTION
T Tom Green EMP-001	2023-01-15	Excellent	On Duty	Details
S Sarah Johnson EMP-002	2023-03-20	Good	On Duty	Details
M Mike Davis EMP-003	2022-11-10	Excellent	On Duty	Details
E Emma Taylor EMP-004	2024-02-01	Average	On Leave	Details
J James Smith EMP-005	2023-06-15	Good	On Duty	Details

- This Month's Outstanding Staff:** A section titled "Top Performers This Month" listing staff members and their ratings: Tom Green (A+), Sarah Johnson (A), Mike Davis (A), Oliver Brown (#4, B+), and James Smith (#5, B+).

Customer Dashboard—Shopping Cart

Summit Gear & Adventures
Gear Up, Explore Beyond

User: 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 £382.50	Quantity: 1	-15%	£382.50	
Sleeping Bag Pro SKU: SBP002 Professional sleeping bag, warm and comfortable	£280.00 £238.00	Quantity: 1	-15%	£238.00	
LED Headlamp Ultra SKU: LHL004 High-brightness LED headlamp	£45.00 £38.25	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
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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—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

Showing 1-12 of 48 products

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

Stock Status

- In Stock Only
- Show All

 North Face Tent - 4人 £450.00 £382.50 -15% Gold 5.0 (125) In Stock	 Sleeping Bag Pro £280.00 £238.00 -15% Gold 4.8 (87) In Stock	 Camping Stove MSR £125.00 £106.25 -15% Gold 4.5 (64) Low Stock
 LED Headlamp Ultra £45.00 £38.25 -15% Gold 5.0 (156) In Stock	 Elite Backpack 65L £180.00 £153.00 -15% Gold 4.8 (203) In Stock	 Camping Mat Deluxe £65.00 £72.25 -15% Gold 5.0 (76) In Stock
 Cooler Box 50L £120.00 £102.00 -15% Gold 5.0 (92) In Stock	 Multi-Tool Survival Kit £55.00 £46.75 -15% Gold 5.0 (134) In Stock	 Water Filter Portable £65.00 £55.25 -15% Gold 5.0 (178) In Stock
 Fire Starter Kit £28.00 £23.80 -15% Gold 5.0 (89) In Stock	 Compass Professional £35.00 £29.75 -15% Gold 5.0 (87) In Stock	 Emergency Radio £75.00 £63.75 -15% Gold 4.8 (54) Low Stock

— Previous Page 1 of 4 Next —

Customer Dashboard—Store Information

The screenshot displays the customer dashboard interface for Summit Gear & Adventures. At the top, there's a navigation bar with links for Home, Products, Stores (highlighted), My Account, and Cart (with a notification count of 1). A user profile for James Wilson is shown, along with a 'Logout' button and a points balance of 2,459.

The main content area is titled 'Store Locations' and features a search bar for finding stores by city or postcode. Below the search bar, a section for the 'London Store' is displayed, including contact information, opening hours, and a store manager. It also includes buttons for 'Get Directions', 'Call', and 'Email'.

Below the London store, sections for the 'Manchester Store', 'Edinburgh Store', and 'Birmingham Store' are shown, each with their own contact details, opening hours, and store managers, accompanied by 'Get Directions', 'Call', and 'Email' buttons.

At the bottom, a purple banner titled 'Our UK Network' provides summary statistics: 5 UK Stores, 115 Total Staff, 7 Days Open Weekly, and 3 Countries (England, Scotland, Wales).

At the very bottom of the page, a dark footer contains copyright information: '© 2025 Summit Gear & Adventures. All rights reserved.' and 'Serving 5 Stores Across the UK'.

Customer Dashboard—Product Information

 **Summit Gear & Adventures**
Gear Up, Explore Beyond

User: James Wilson Gold Logout
Points: 2,450

Home Products Stores My Account Cart (0)

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:

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  Add to Cart	 Camping Stove £125.00  Add to Cart	 LED Headlamp £38.25  Add to Cart	 Elite Backpack £180.00  Add to Cart
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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—My Account

 **Summit Gear & Adventures**
Gear Up, Explore Beyond

 James Wilson  Logout
Points: 2,450

 **My Account - James Wilson**

 **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

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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

 **Summit Gear & Adventures**

Business Management Console

 Notifications 5  Business Admin
London Store - UK

 Business Overview

 Sales Analytics

 Order Management

 Returns

 Customer Management

 Customer List

 Membership

 Loyalty Program

 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							
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)	£20.5K
	Sold: 158 units	
#2	Waterproof Jacket (Columbia)	£18.9K
	Sold: 142 units	
#3	Outdoor Backpack (Osprey)	£16.3K
	Sold: 126 units	
#4	Camping Tent (North Face)	£14.7K
	Sold: 98 units	
#5	GPS Navigator (Garmin)	£13.2K
	Sold: 87 units	

Staff Dashboard—Order Processing

 **Summit Gear & Adventures**
📍 London Store

👤 Tom Green (EMP-002)
📅 2025-10-27 | ⏰ 18:02
📊 My Sales
Logout

Sales (POS) Customers Stock Check Returns My Performance

New Sales Order

 New Sales Order 

Product Search

🔍

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

 **Summit Gear & Adventures**
📍 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:
 Search

OR

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

 **Summit Gear & Adventures**

📍 London Store

Tom Green (EMP-002)
📅 2025-10-27 | ⏰ 18:04

Sales (POS) Customers Stock Check Returns My Performance

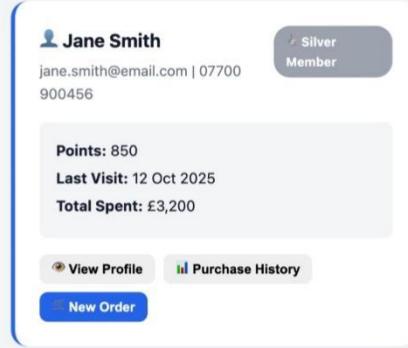
Customer Management

Search customer name, email or phone...

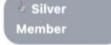

John Doe
john.doe@email.com | 07700
900123

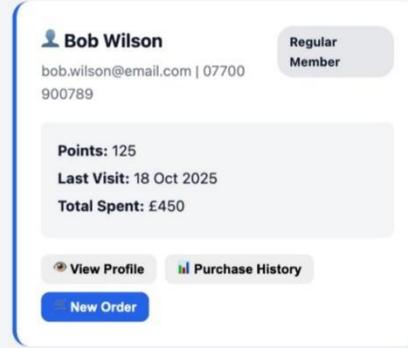
Points: 2,450
Last Visit: 15 Oct 2025
Total Spent: £12,450


[View Profile](#) [Purchase History](#) [New Order](#)


Jane Smith
jane.smith@email.com | 07700
900456

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

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;
```