

Supernatural Wardrobe

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Project Outline:

Supernatural Wardrobe is a distribution center for Halloween costumes. Consumers spend billions of dollars each year on Halloween costumes. We supply Halloween costumes to over 500 franchise companies with a large selection of costumes by allowing them to search through our inventory and purchase costumes in bulk. We make an estimated revenue of \$1.2 billion in sales. On average each company orders 100 units that contain over 5,000 costumes. Each costume will be categorized by theme allowing companies to order multiple costumes in bulk. A database will allow us to record each order to keep track of our supply chain and order fulfillment. The database will also allow us to keep track of inventory and the companies we work with for a more streamlined process.

Supernatural Wardrobe will have the capability to allow a company to order in bulk and to choose their costume themes. The database will provide details on the costume orders, quantity ordered, and the classification of each order by costume and theme name.

Database Outline

costumes: records the details of the costumes in our system

- costume_id: int, auto_increment, not NULL, PK
- costume_name: varchar(150), not NULL
- price: decimal(18, 2), not NULL
- costume_description: varchar(750), not NULL
- theme_id: int, not NULL, FK
- Relationship:
 - M:N between costumes and orders with costume_orders acting as an intersection table.
 - M:1 between costume and themes with theme_id as a FK inside of costumes. It's mandatory for a costume to have a costume theme and for a costume theme to be associated with a costume.
 - 1:1 between costumes and inventory with inventory_id as a FK inside of costumes. It's possible for there to be 0 stock of a certain costume in inventory.

themes: list of themes that a costume can have

- theme_id: int, not NULL, PK
- theme_description: varchar(150), not NULL
- Relationship:
 - 1:M between costume and themes with theme_id as a FK inside of costumes. It's mandatory for a costume to have a costume theme and for a costume theme to be associated with a costume.

inventory: records the amount of costumes in our system

- inventory_id: int, auto_increment, not NULL, PK
- stock: int, DEFAULT NULL, 0/None is out of stock
- inventory_description: varchar(150), not NULL
- costume_id: int, not NULL, FK
- Relationship:

- 1:1 between costumes and inventory with costume_id as a FK inside of inventory. It's possible for there to be 0 stock of a certain costume in inventory.

companies: records the information of companies that we provide costumes for

- company_id: int, auto_increment, not NULL, PK
- company_name: varchar(150), not NULL
- phone: varchar(20), not NULL
- email: varchar(50), not NULL
- Relationship:
 - M:1 between companies and orders with company_id as FK inside of orders. It's mandatory for a company to have 1 or more orders and it's mandatory for an order to be associated with one company.

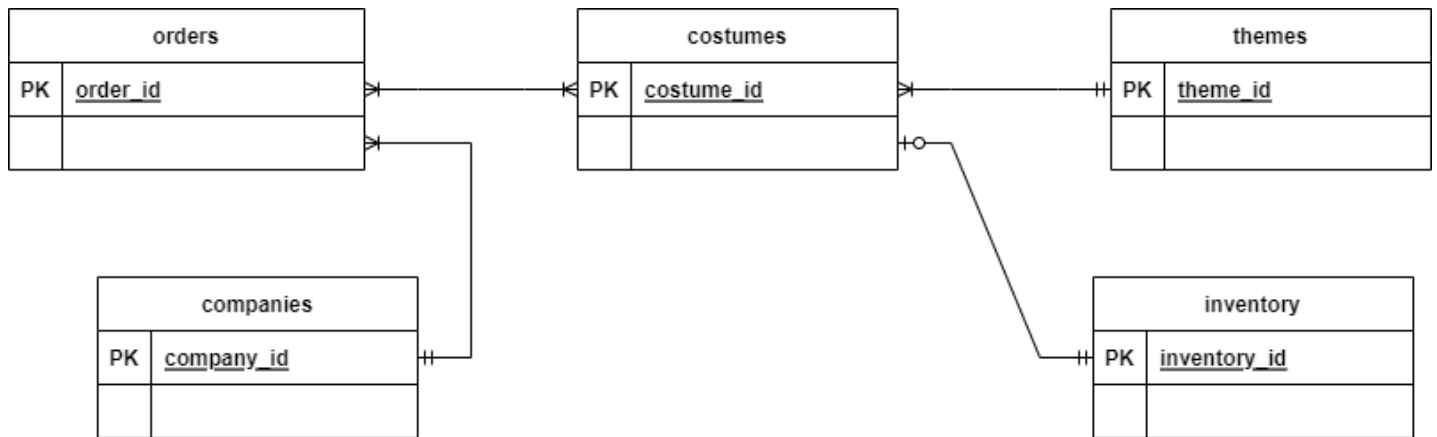
orders: records costume orders for companies

- order_id: int, auto_increment, not NULL, PK
- order_date: date, not NULL
- total: decimal(18,2), not NULL
- order_status: varchar(50), not NULL
- company_id: int, not NULL, FK
- Relationship:
 - M:N between costumes and orders with costume_orders acting as an intersection table.
 - 1:M between orders and companies with company_id as FK inside of orders. It's mandatory for a company to have 1 or more orders and it's mandatory for an order to be associated with one company.

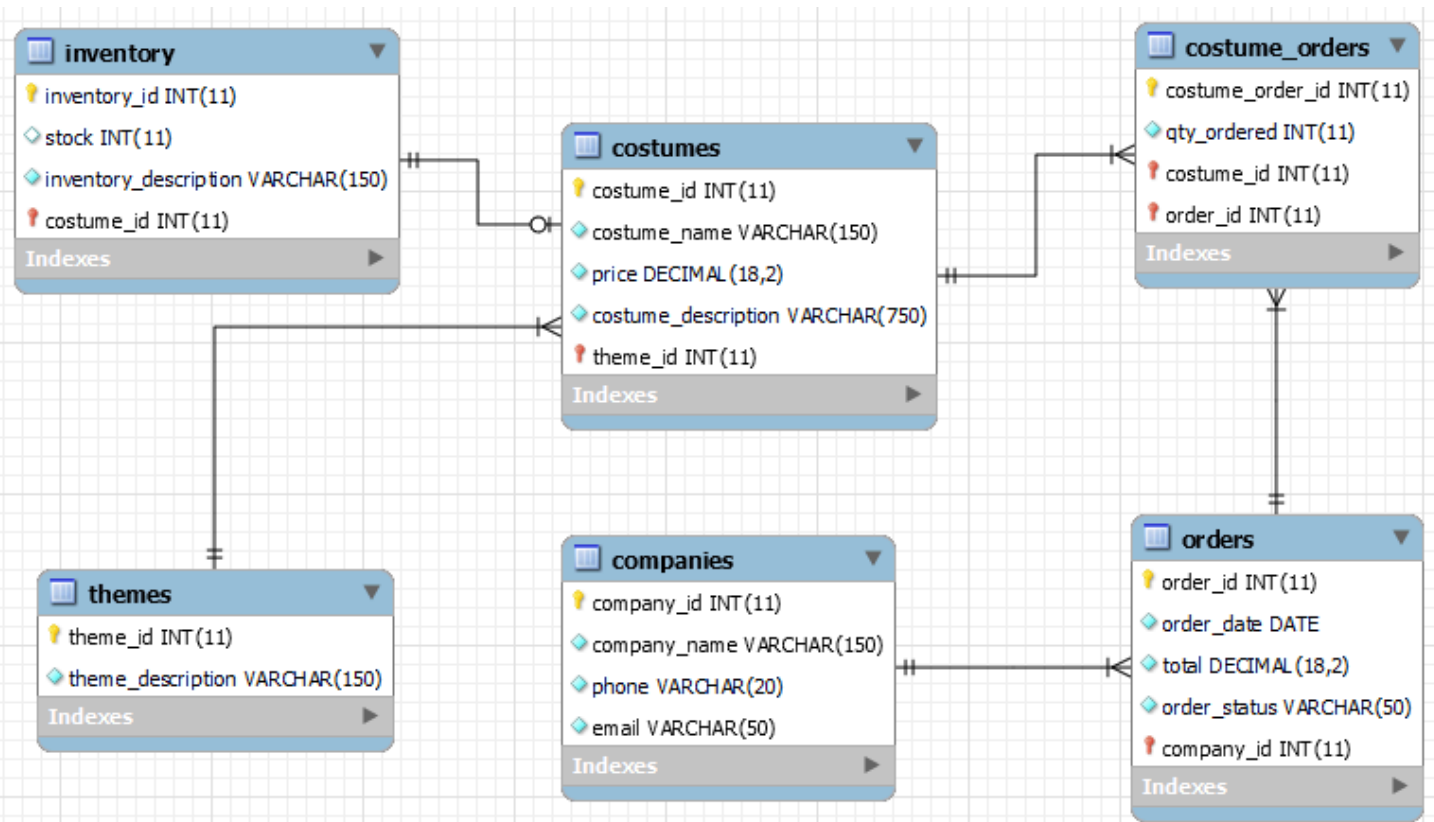
costume_orders: intersection table between costumes and orders

- costume_order_id: int, not NULL, PK
- costume_id: int, not NULL, FK
- order_id: int, not NULL, FK
- qty_ordered : int, NOT NULL
- Relationship:
 - 1:M between costume_orders and costumes with costume_id as a FK inside of costume_orders.
 - 1:M between costume_orders and orders with order_id as a FK inside of costume_orders.

Entity-Relationship Diagram



Schema



Example Data

costumes:

costume_id	costume_name	price	costume_description	theme_id
1	Spooky Vampire	450.00	Thirsty for some blood? This adult vampire costume...	1
2	Dark Witch	500.00	This beautiful celestial witch costume will have you casting spells...	2
3	Dark Knight	600.00	Protect Gotham City from the forces of Evil and the deadly Joker...	3

- M:1 between costume and themes with theme_id as a FK inside of costumes. It's mandatory for a costume to have a costume theme and for a costume theme to be associated with a costume

themes:

theme_id	theme_description
1	Vampire
2	Witch
3	Superhero

- 1:M between costume and themes with theme_id as a FK inside of costumes. It's mandatory for a costume to have a costume theme and for a costume theme to be associated with a costume.

inventory:

inventory_id	stock	inventory_description	costume_id
1	500	aisle 1	1
2	1000	aisle 2	2
3	1200	aisle 3	3

- 1:1 between costumes and inventory with costume_id as a FK inside of inventory. It's possible for there to be 0 stock of a certain costume in inventory.

companies:

company_id	company_name	phone	email
1	Halloween 4 U	123-467-1224	halloweenforyou@gmail.com
2	Buy Costumes	123-789-4556	buycostumes@gmail.com
3	Halloween 2 Go	123-777-8889	halloween2go@gmail.com

- M:1 between companies and orders with company_id as FK inside of orders. It's mandatory for a company to have 1 or more orders and it's mandatory for an order to be associated with one company.

orders:

order_id	order_date	total	order_status	company_id
1	2020-10-20	27500.00	delivered	1
2	2022-10-03	11250.00	in transit	2
3	2022-05-03	34200.00	in transit	1

- M:N between costumes and orders with costume_orders acting as an intersection table.
- 1:M between orders and companies with company_id as FK inside of orders

costume_orders (intersection table):

costume_order_id	order_id	costume_id	qty_ordered
1	2	1	25
2	3	1	36
3	1	2	55
4	3	3	30

- 1:M between costume_orders and costumes with costume_id as a FK inside of costume_orders.
- 1:M between costume_orders and orders with order_id as a FK inside of costume_orders.

UI Screenshots:

“Home Page”



SUPERNATURAL WARBROBE

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Supernatural Wardrobe is a distribution center for Halloween costumes. Consumers spend billions of dollars each year on Halloween costumes. We supply Halloween costumes to over 500 franchise companies with a large selection of costumes by allowing them to search through our inventory and purchase costumes in bulk. We make an estimated revenue of \$1.2 billion in sales. On average each company orders 100 units that contain over 5,000 costumes. Each costume is categorized by theme allowing companies to order multiple costumes in bulk. A database will allow us to record each order to keep track of our supply chain and order fulfillment. The database will also allow us to keep track of inventory and the companies we work with for a more streamlined process.

costumes: An entity to store data of costumes

themes: An entity to store data of costume themes

inventory: An entity to store data of costume inventory

companies: An entity to store data of company contact details

orders: An entity to store data of all costume orders

costume_orders: An intersection table to store data of costume orders by order ID

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“CREATE/READ/UPDATE/DELETE & SEARCH Costumes Page”



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Costumes

Browse Costumes

ID	Name	Price Per Unit	Description	Theme	Edit	Delete
1	Spooky Vampire	450.00	Thirsty for some blood? This adult vampire costume...	Vampire	Edit	Delete
2	Dark Witch	500.00	This beautiful celestial witch costume will have you casting spells...	Witch	Edit	Delete
3	Dark Knight	600.00	Protect Gotham City from the forces of Evil and the deadly Joker...	Superhero	Edit	Delete

Each unit contains 50 costumes and a costume cannot be deleted if associated with an order.

Search Costumes

Partial names are OK

Search by Costume Name or Theme:

Search

Reset

Add Costume

Name:

Scary Costume

Price Per Unit:

100.00

Costume Description:

This is a scary costume

Theme:

--select a theme--

Add Costume

Cancel



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Themes

Browse Costume Themes

ID	Description	Delete
1	Vampire	Delete
2	Witch	Delete
3	Superhero	Delete

A theme cannot be deleted if it is associated with a costume.

Add Theme

Theme Description:

Witch

- Add Theme
- Cancel

“CREATE/READ/UPDATE/DELETE & SEARCH Inventory Page”



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Inventory

Browse Inventory

ID	Stock	Description	Costume Name	Edit	Delete
1	500	aisle 1	Spooky Vampire	Edit	Delete
2	1000	aisle 2	Dark Witch	Edit	Delete
3	1200	aisle 3	Dark Knight	Edit	Delete

Search Inventory

Partial names are OK

Search by Costume Name:

Add Costume

Stock:

Inventory Description:

Costume:

“CREATE/READ/UPDATE & SEARCH Companies Page”



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Companies

Browse Companies

ID	Name	Phone	Email	Edit
1	Halloween 4 U	123-467-1224	halloweenforyou@gmail.com	Edit
2	Buy Costumes	123-789-4556	buycostumes@gmail.com	Edit
3	Halloween 2 Go	123-777-8889	halloween2go@gmail.com	Edit

Search Companies

Partial names are OK

Search by Company Name:

Add Company

Name:

Phone:

Email:



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Orders

Browse Orders

ID	Order Date	Total	Order Status	Company Name	Update Order Status
1	2020-10-20	27500.00	delivered	Halloween 4 U	Update
2	2022-10-03	11250.00	in transit	Buy Costumes	Update
3	2022-05-03	34200.00	in transit	Halloween 4 U	Update

An order's status cannot be changed if the order has already been delivered or canceled.

Start An Order

To add to or edit an order check the costume orders page.

Company Name:

--select a company--

Add Order

Cancel

“CREATE/READ/UPDATE/DELETE Costume Orders”



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Costume Orders

Browse Costume Orders

ID	Order ID	Costume Name	Quantity	Edit	Delete
1	2	Spooky Vampire	25	Edit	Delete
2	3	Spooky Vampire	36	Edit	Delete
3	1	Dark Witch	55	Edit	Delete
4	3	Dark Knight	30	Edit	Delete

Note: An order that has been delivered or canceled cannot be changed in any way.

Add to an Order

Order ID:

--select an order ID--

Costume:

--select a costume--

Quantity:

1

Add Costume

Cancel