

Database model documentation

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1. Model details

Model name:

MySQL demo physical data model

Version:

2.3

Database engine:

MySQL

Description:

2. Tables

2.1. Table product

2.1.1. Columns

Column name	Type	Properties	Description
id	int	PK	
product_name	varchar(64)		
product_description	varchar(255)		
product_type_id	int		
price_per_unit	decimal(8,2)		
unit_id	int		

2.2. Table product_type

2.2.1. Columns

Column name	Type	Properties	Description
id	int	PK	
type_name	varchar(64)		

2.3. Table stock

2.3.1. Columns

Column name	Type	Properties	Description
product_id	int	PK	
in_stock	decimal(8,2)		
last_update_time	timestamp		

2.4. Table units

Description:

info about, the units for each item, in inventory. eg

unit_name -> "kilogram"

unit_short -> "kg"

2.4.1. Columns

Column name	Type	Properties	Description
id	int	PK	
unit_name	varchar(64)		
unit_short	varchar(8)	null	

2.5. Table customer

Description:

table for customer

2.5.1. Columns

Column name	Type	Properties	Description
id	int	PK	
first_name	varchar(128)		
last_name	varchar(128)		
contact_email	varchar(128)	null	
contact_phone	varchar(10)		
customer_address	text		
delivery_address	text	null	

2.6. Table employee

2.6.1. Columns

Column name	Type	Properties	Description
id	int	PK	
first_name	varchar(64)		
last_name	varchar(64)	null	

2.7. Table admin

2.7.1. Columns

Column name	Type	Properties	Description
id	int	PK	
first_name	varchar(64)		
last_name	varchar(64)	null	
username	varchar(128)		
password	varchar(300)		

2.8. Table order_item

2.8.1. Columns

Column name	Type	Properties	Description
id	int	PK	
quantity	decimal(10,3)		
price	decimal(10,3)		
product_id	int		
placed_order_id	int		

2.9. Table placed_order

2.9.1. Columns

Column name	Type	Properties	Description
id	int	PK	
time_placed	timestamp		
details	text	null	
delivery_address	text		
customer_id	int		
order_status_id	int		

2.10. Table order_status

2.10.1. Columns

Column name	Type	Properties	Description
id	int	PK	
status_time	timestamp		
details	text	null	
status_catalog_id	int		

2.11. Table status_catalog

2.11.1. Columns

Column name	Type	Properties	Description
id	int	PK	

status_name	varchar(128)		
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2.12. Table delivery

2.12.1. Columns

Column name	Type	Properties	Description
id	int	PK	
delivery_time_placed	timestamp		
delivery_time_actual	timestamp	null	
notes	int	null	
placed_order_id	int		
employee_id	int		

2.13. Table shop_details

2.13.1. Columns

Column name	Type	Properties	Description
id	int	PK	
shop_name	varchar(128)		
details	text	null	
address	text		
admin_id	int		

3. Views

3.1. View product_details

SQL:

```
SELECT
  p.id,
  p.product_name,
  p.product_description,
  pt.type_name,
  p.unit_id,
  p.price_per_unit,
  s.in_stock,
  s.last_update_time
FROM product p
LEFT JOIN units ut ON p.unit_id = ut.id
LEFT JOIN product_type pt ON p.product_type_id = pt.id
LEFT JOIN stock s ON p.id = s.product_id;
```

3.1.1. Columns

Column name	Type	Properties	Description
id	int		
product_name	varchar(64)		
product_description	varchar(255)		
type_name	varchar(64)		
unit_id	varchar(16)		
price_per_unit	decimal(8,2)		
in_stock	decimal(8,2)		
last_update_time	timestamp		

4. References

4.1. Reference stock_product

product	0..*	stock
id	<->	product_id

4.2. Reference product_product_type

product_type	0..*	product
id	<->	product_type_id

4.3. Reference product_units

units	0..*	product
id	<->	unit_id

4.4. Reference order_item_product

product	0..*	order_item
id	<->	product_id

4.5. Reference placed_order_Customer

customer	0..*	placed_order
id	<->	customer_id

4.6. Reference order_item_placed_order

placed_order	0..*	order_item
id	<->	placed_order_id

4.7. Reference order_status_status_catalog

status_catalog	0..*	order_status
id	<->	status_catalog_id

4.8. Reference placed_order_order_status

order_status	0..*	placed_order
id	<->	order_status_id

4.9. Reference delivery_placed_order

placed_order	0..*	delivery
id	<->	placed_order_id

4.10. Reference delivery_employee

employee	0..*	delivery
id	<->	employee_id

4.11. Reference shop_details_admin

admin	0..*	shop_details
id	<->	admin_id

5. Areas

5.1. Product subject area

5.1.1. Tables

- product
- product_type
- stock
- units

5.1.2. Views

- product_details

5.1.3. References

- stock_product
- product_product_type
- product_units
- order_item_product
- placed_order_Customer
- order_item_placed_order
- order_status_status_catalog
- placed_order_order_status
- delivery_placed_order
- delivery_employee
- shop_details_admin

5.2. Client subject area

5.2.1. Tables

- customer
- employee
- admin
- shop_details

5.2.2. References

- stock_product
- product_product_type
- product_units
- order_item_product
- placed_order_Customer
- order_item_placed_order
- order_status_status_catalog
- placed_order_order_status

- delivery_placed_order
- delivery_employee
- shop_details_admin

5.3. Order subject area

5.3.1. Tables

- order_item
- placed_order
- order_status
- status_catalog
- delivery

5.3.2. References

- stock_product
- product_product_type
- product_units
- order_item_product
- placed_order_Customer
- order_item_placed_order
- order_status_status_catalog
- placed_order_order_status
- delivery_placed_order
- delivery_employee
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