

ITERATION 1

1

SHOP

```
(  
  RegistrationNumber(PK)  
  ShopDescription  
  CreationDate  
  ShopPhone  
  ShopName  
  ShopRate  
)
```

PRODUCT

```
(  
  ProductId(PK)  
  ProductName  
  Brand  
  SKU(Stock Keeping Unit for the prduct family)  
  ShortDescription  
  Description  
  IsApproved  
  Status  
  Rating  
  DateAdded  
  TaxClass  
  BarCode  
  BasePrice  
)
```

APPROVED_CART

```
(  
  ApprovedCartId(PK)  
  TotalPrice  
)
```

CATEGORY

```
(  
CategoryId(PK)  
CategoryName  
)
```

MEDIA

```
(  
MediaID(PK)  
MediaType  
URL  
)
```

CART

```
(  
CartID(PK)  
CreatDate  
UpdateDate  
TotalPrice  
)
```

PRODUCT_OPTION

```
(  
OptionID(PK)  
OptionName  
IsMandatory  
)
```

SKU_MANAGEMENT

```
(  
Skuld(PK)  
Sku  
SupplierName  
RestockDate  
StockLevel  
RestockThreshold  
)
```

OPTION_VALUE

```
(  
PRODUCT_OPTION.OptionId(FK)  
ValueId(Partial Key)  
DimensionImpact  
WeightImpact  
AdditionalPrice  
)
```

ORDER_ITEM

```
(  
APPROVED_CART.ApproverCartId(FK)  
OrderItemId (Partial Key)  
ItemPrice  
OrderStatus –enum  
AppliedDiscount  
DateTime  
)
```

3

4

RETURN_PRODUCT

```
(  
ORDER_ITEM.ApprovedCartId(PK, FK)  
ORDER_ITEM.OrderItemId (PK, FK)  
PRODUCT_VARIATION.VariationId(PK, FK)  
PRODUCT_VARIATION.ValueId(PK, FK)  
PRODUCT_VARIATION.OptionId(PK, FK)  
TrackingNo  
ReturnLocation  
ReturnStatus  
ReturnDate  
ReturnReason  
)
```

PRODUCT.HAS.OPTION

```
(  
PRODUCT_OPTION.OptionId  
PRODUCT.ProductId  
)
```

MEDIA

```
(  
PRODUCT.ProductId(FK)  
CATEGORY.ID(FK)  
MediaID(PK)  
MediaType  
URL  
)
```

CATEGORY

```
(  
CategoryId(PK)  
CategoryName  
MEDIA.ID(FK)  
)
```

ORDER_ITEM

```
(  
APPROVED_CART.ApproverCartId(FK)  
OrderItemId (Partial Key)  
ItemPrice  
OrderStatus –enum  
AppliedDiscount  
DateTime  
)
```

5

SHOP.SELLS.PRODUCT

```
(  
SHOP.RegistrationNumber(FK)  
PRODUCT.ProductId (FK)  
)
```

PRODUCT.CONTAINS.CATEGORY

```
(  
PRODUCT.ProductID(FK)  
CATEGORY.ID(FK)  
)
```

SUBCATEGORY

```
(  
ParentCategoryID (PK, FK referencing CATEGORY.CategoryID),  
ChildCategoryID (PK, FK referencing CATEGORY.CategoryID)  
)
```

6

7

8

USER:

```
(  
UserId(PK)  
FName  
LName  
PhoneNumber  
HashedPassword  
Email  
MemberShipDate  
UserType  
)
```

CUSTOMER

```
(  
UserId(PK, FK refrencing USER.UserID)  
CostumerType  
)
```

ADMIN

```
(  
UserID(PK, FK refrencing USER.UserID)  
Role
```

LastLogin

)

SELLER

(

UserId(PK, FK refrencing USER.UserID)

RegistrationNumber(FK refrencing SHOP.RegistrationNumber)

SellerRate

)

LOGISTIC

(

LogisticID (PK),

CompanyName,

LogisticType – Discriminator ('MOSAJET', 'Other')

LogiName

)

PAYMENT_METHOD

(

PaymentID(PK)

InstallmentCount

InstalmentAmount

InstalmentRate

CreateAt

)

BANKCARD

(

PaymentID(PK, FK refrencing PAYMENT_METHOD.PaymentID)

CVV

ExpDate

CardLastFourDigits

CardHolderName

PaymentType

)

WALLET

```
(  
PaymentID(PK, FK refrencign PAYMENT_METHOD.PaymentID)  
Balance  
ExpDate  
)
```

GIFTCARD

```
(  
PaymentID(PK, FK refrencign PAYMENT_METHOD.PaymentID)  
Balance  
RequestCode  
ExpDate  
)
```

DISCOUNT

```
(  
DiscontID  
Rate  
Limit  
Status  
CouponFlag  
PercentageFlag  
FixedAmmountFlag  
PremiumDiscount  
Amount  
)
```

ADDRESS

```
(  
AddressId(PK)  
ZipCode  
Neighbourhood  
Provience  
City  
Country  
Flat  
Apartmant  
AddressType –enum  
)
```

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1

2

REVIEW

```
(  
ORDER_ITEM.OrderItemID(PK, FK )  
ORDER_ITEM.ApproverCartId (PK, FK)  
ReviewId(PartialK)  
Rating CHECK(Rating BETWEEN 1 AND 5)  
Comment  
Review_date  
)
```

LIST

```
(  
ListID(Partial Key)  
UserID(PK ,FK refrencing CUSTOMER.UserID)  
ListName  
ListType  
Visibility –enum (Public, Private)  
CreatedAt  
)
```

QUESTION

```
(  
QuestionNumber(Partial Key)  
QuestionText  
UserId(PK, FK refrencing CUSTOMER.UserID)  
AskDateTime  
QuestionStatus  
)
```

CART_ITEM


```
(  
  CartItemId (PK)  
  PRODUCT_VARIATION.ValueID(PK, FK)  
  PRODUCT_VARIATION.OptionID(PK,FK)  
  PRODUCT_VARIATION.VariationID (PK, FK)  
  UserID(PK, FK CUSTOMER.UserID)  
  Quantity  
  FinalPrice  
)
```

PRODUCT_VARIATION

```
(  
  PRODUCT.ProductId(PK, FK)  
  OPTION_VALUE.ValueId(PK, FK)  
  OPTION_VALUE.OptionId(PK, FK)  
  Variation_Id(Partial Key)  
  StockLevel  
  Status  
  CreatedAt  
  UpdatedAt  
  Weight  
  OptionCombination  
  Price  
)
```

3

SHOP.RESPONSE.REVIEW

```
(  
  SHOP.Registration.Number(PK, FK)  
  REVIEW.ReviewId(PK, FK)  
  REVIEW.OrderItemId(PK, FK)  
  REVIEW.ApprovedCartId (PK, FK)  
  REVIEW.UserID(PK, FK)  
  ResponseText  
  ResponseDate  
)
```

REVIEW.HAS.MEDIA

```
(  
REVIEW.ReviewId(PK, FK)  
REVIEW.OrderItemId(PK, FK)  
REVIEW.ApprovedCartId (PK, FK)  
REVIEW.UserId(PK, FK)  
MEDIA.MediaId(PK, FK)  
)
```

CART

```
(  
CartID(PK)  
USER.UserId (FK)  
Cartstatus  
CreateDate  
UpdateDate  
TotalPrice  
)
```

4

REVIEW –

```
(  
ORDER_ITEM.OrderItemID(PK, FK)  
CUSTOMER.UserId(PK, FK)  
ReviewId(PartialK)  
ORDER_ITEM.ApprovedCartId (PK, FK)  
PRODUCT.ProductId (FK)  
Rating CHECK(Rating BETWEEN 1 AND 5)  
Comment  
Review_date  
)
```

SKU_MANAGEMENT

```
(  
PRODUCT_VARIATION.VariationId (FK)  
PRODUCT_VARIATION.ValueId(FK)  
PRODCUT_VARIATION.OptionId(FK)  
Skuld(PK)  
Sku  
SupplierName
```

RestockDate
StockLevel
RestockThreshold
)

MEDIA

(
PRODUCT.ProductId(FK)
[CATEGORY.ID](#)(FK)
PRODUCT_VARIATION.VariationId (FK)
PRODUCT_VARIATION.ValueId(FK)
PRODUCT_VARIATION.OptionId(FK)
MediaId(PK)
MediaType
URL
)

CART_ITEM

(
CartItemid (PK)
PRODUCT_VARIATION.ValueID(PK, FK)
PRODUCT_VARIATION.OptionID(PK,FK)
PRODUCT_VARIATION.VariationID (PK, FK)
UserID(PK, FK CUSTOMER.UserID)
Quantity
FinalPrice
Discount_id(FK from DISCOUNT)
Cart_id (FK from CART)
)

APPROVED_CART

(
ApprovedCartId
PaymentID(PK, FK referencing PAYMENT_METHOD.PaymentID)
)

ADDRESS

(
AddressId(PK)
ZipCode

Neighbourhood
Provience
City
Country
Flat
Apartmant
AddressType
UserId(FK refrencing COSTUMER.UserId)
RegistrationNumber(FK refrencing SHOP.RegistrationNumber)
)

SELLER

(
UserId(PK, FK refrencing USER.UserID)
RegistrationNumber(FK refrencing SHOP.RegistrationNumber)
SellerRate
RegistrationNumber(FK refrencing SHOP.RegistrationNumber)
)

QUESTION

(
QuestionNumber(Partial Key)
QuestionText
UserId(PK, FK refrencing CUSTUMER.UserID)
ProductID(PK, FK PRODUCT.ProductID)
UserId(PK, FK refrencing USER.UserID)
AnswerText
AnswerDate
AskDateTime
QuestionStatus
)

PAYMENT_METHOD

(
PaymentID(PK)
UserId(PK, FK refrencing CUSTUMER.UserID)
InstallmentCount
InstalmentAmount
InstalmentRate

CreateAt

)

5

DISCOUNT.APPLIED.PRODUCT

(

DISCOUNT.DiscountId

PRODUCT.ProductId

)

PRODUCT.HAS_OPTION.PRODUCT_OPTION

(

PRODUCT_OPTION.OptionId

PRODUCT.ProductId

)

LIST.CONTAINS.PRODUCT

(

UserId(PK, FK refrencing CUSTOMER.UserID)

LIST.ListId(PK, FK)

PRODUCT.ProductId(PK, FK)

)

CUSTOMER.LIKE.PRODUCT

(

UserId(PK, FK refrencing CUSTUMER.UserID)

PRODUCT.ProductId(FK)

)

6

7

SHIPPED

(

LOGISTIC.LogisticID (PK, FK)

ORDER_ITEM.OrderItemID (PK, FK)

ORDER_ITEM.ApprovedCartID (PK, FK)

ADDRESS.AddressID (PK, FK)

Receipt

DeliveryDate

DeliveryStatus –enum

ShippingDate

LPrice

TrackingNum

)

8

PREMIUM

(

UserId (PK, FK referencing CUSTOMER.UserId),

PremiumStartDate,

PremiumEndDate

MembershipPlan

)

9

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SHOP

(

RegistrationNumber(PK)

ShopDescription

CreationDate

ShopPhone

ShopName

ShopRate

)

PRODUCT

(

ProductId(PK)

ProductName

Brand

SKU(Stock Keeping Unit for the prduct family)

ShortDescription

Description

IsApproved

Status

Rating

DateAdded

TaxClass

BarCode

BasePrice

)

APPROVED_CART

(

ApprovedCartId(PK)

TotalPrice

PaymentID(PK, FK referencing PAYMENT_METHOD.PaymentID)

)

CATEGORY

(

CategoryId(PK)

CategoryName

[MEDIA.ID](#)(FK)

)

MEDIA

(

PRODUCT.ProductId(FK)

[CATEGORY.ID](#)(FK)

PRODUCT_VARIATION.VariationId (FK)

PRODUCT_VARIATION.ValueId(FK) (??? DÜZELT)

PRODUCT_VARIATION.OptionId(FK)

MediaId(PK)

MediaType

URL

)

CART

(

CartID(PK)

USER.UserID (FK)

Cartstatus

CreateDate

UpdateDate

TotalPrice

)

PRODUCT_OPTION

(

OptionID(PK)

OptionName

IsMandatory

)

SKU_MANAGEMENT

(

PRODUCT_VARIATION.VariationId (FK)

PRODUCT_VARIATION.ValueId(FK)

PRODUCT_VARIATION.OptionId(FK)

Sku

Skuld (PK)

SupplierName

RestockDate

StockLevel

RestockThreshold

)

OPTION_VALUE

(

PRODUCT_OPTION.OptionId(PK, FK)

ValueId(Partial Key)

DimensionImpact

WeightImpact

AdditionalPrice

)

PRODUCT_VARIATION

(

Variation_Id(Partial Key)

OPTION_VALUE.ValueId(PK, FK)

OPTION_VALUE.OptionId(PK, FK)
PRODUCT.ProductID(PK, FK)
StockLevel
Status
CreatedAt
UpdatedAt
Weight
OptionCombination
Price
)

SHOP.SELLS.PRODUCT

(
SHOP.RegistrationNumber(FK)
PRODUCT.ProductId (FK)
)

PRODUCT.CONTAINS.CATEGORY

(
PRODUCT.ProductID(FK)
[CATEGORY.ID](#)(FK)
)

SUBCATEGORY

(
ParentCategoryID (PK, FK referencing CATEGORY.CategoryID),
ChildCategoryID (PK, FK referencing CATEGORY.CategoryID)
)

USER

(
UserId(PK)
FName
LName
PhoneNumber
HashedPassword
Email
MemberShipDate
UserType
)

CUSTOMER

(
UserId(PK, FK refrencing USER.UserID)
CostumerType
)

PREMIUM

(
UserId (PK, FK referencing CUSTOMER.UserId),
PremiumStartDate,
PremiumEndDate
MembershipPlan
)

ADMIN

(
UserID(PK, FK refrencing USER.UserID)
Role
LastLogin
)

SELLER

(
UserId(PK, FK refrencing USER.UserID)
SellerRate
RegistrationNumber(FK refrencing SHOP.RegistrationNumber)
)

LOGISTIC

(
LogisticID (PK),
CompanyName,
LogisticType – Discriminator ('MOSAJET', 'Other')
LogiName
)

PAYMENT_METHOD

(
PaymentID(PK)

UserId(FK refrencing CUSTUMER.UserID)
InstallmentCount
InstalLmentAmount
InstalLmentRate
CreateAt
)

BANKCARD

(
PaymentID(PK, FK refrencing PAYMENT_METHOD.PaymentID)
CVV
ExpDate
CardLastFourDigits
CardHolderName
PaymentType
)

WALLET

(
PaymentID(PK, FK refrencign PAYMENT_METHOD.PaymentID)
Balance
ExpDate
)

GIFTCARD

(
PaymentID(PK, FK refrencign PAYMENT_METHOD.PaymentID)
Balance
RequestCode
ExpDate
)

DISCOUNT

(
DiscontID (PK)
Rate
Limit
Status
CouponFlag
PercentageFlag

FixedAmmountFlag
PremiumDiscountFlag
Rate
Amount
)

ADDRESS

(
AddressId(PK)
ZipCode
Neighbourhood
Provience
City
Country
Flat
Apartmant
AddressType
UserId(FK refrencing COSTUMER.UserId)
RegistrationNumber(FK refrencing SHOP.RegistrationNumber)
)

ORDER_ITEM

(
APPROVED_CART.ApprovedCartId(PK, FK)
OrderItemId (Partial Key)
ItemPrice
Quantity
OrderStatus –enum
AppliedDiscount
DateTime
)

RETURN_PRODUCT

(
ORDER_ITEM.ApprovedCartId(PK, FK)
ORDER_ITEM.OrderItemId (PK, FK)
PRODUCT_VARIATION.ProductId(PK, FK)
PRODUCT_VARIATION.ValueID(PK, FK)
PRODUCT_VARIATION.OptionID(PK,FK)

PRODUCT_VARIATION.VariationID (PK, FK)

TrackingNo

ReturnLocation

ReturnStatus

ReturnDate

ReturnReason

)

LIST

(

ListID(Partial Key)

UserID(PK ,FK refrencing CUSTOMER.UserID)

ListName

ListType

Visibility –enum (Public, Private)

CreatedAt

)

QUESTION

(

QuestionNumber(Partial Key)

QuestionText

UserId(PK, FK refrencing CUSTOMER.UserID)

ProductID(FK PRODUCT.ProductID)

SELLER.UserId(FK)

AnswerText

AnswerDate

AskDateTime

QuestionStatus

CART_ITEM

(

CartItemId (PK)

PRODUCT_VARIATION.ValueID(PK, FK)

PRODUCT_VARIATION.OptionID(PK,FK)

PRODUCT_VARIATION.VariationID (PK, FK)

ValueID (PK, FK PRODUCT_VARIATION.ValueID)

OtionID(PK, FK PRODUCT_VARIATION.OptionID)

VariationID (PK, FK PRODUCT_VARIATION.VariationID)

UserID(PK, FK CUSTOMER.UserID)
Quantity
FinalPrice
Discount_id(FK from DISCOUNT)
Cart_id (FK from CART)
)

APPROVE_ITEM

(
APPROVED_CART.ApprovedCartId (PK, FK)
CART_ITEM.CartItemId (PK, FK)
CART_ITEM.ValueID(PK, FK)
CART_ITEM.OptionID(PK,FK)
CART_ITEM.VariationID (PK, FK)
CART_ITEM.UserID(PK, FK)
)

DISCOUNT.APPLIED.PRODUCT

(
DISCOUNT.DiscountId (PK, FK)
PRODUCT.ProductId (PK, FK)
)

PRODUCT.HAS.OPTION

(
PRODUCT_OPTION.OptionId
PRODUCT.ProductId
)

LIST.CONTAINS.PRODUCT

UserId(PK, FK refrencing CUSTOMER.UserID)
LIST.ListId(PK, FK)
PRODUCT.ProductId(PK, FK)
)

CUSTOMER.LIKE.PRODUCT

(
UserId(PK, FK refrencing CUSTUMER.UserID)

PRODUCT.ProductId(FK)

)

REVIEW

(

ORDER_ITEM.OrderItemID(PK, FK)

CUSTOMER.UserID(PK, FK)

ReviewId(PartialK)

ORDER_ITEM.ApprovedCartId (PK, FK)

PRODUCT.ProductId (FK)

Rating CHECK(Rating BETWEEN 1 AND 5)

Comment

Review_date

)

SHOP.RESPONSE.REVIEW

(

SHOP.Registration.Number(PK, FK)

REVIEW.ReviewId(PK, FK)

REVIEW.OrderItemId(PK, FK)

REVIEW.ApprovedCartId (PK, FK)

REVIEW.UserID(PK, FK)

ResponseText

ResponseDate

)

REVIEW.HAS.MEDIA

(

REVIEW.ApprovedCartId (PK, FK)

REVIEW.ReviewId(FK)

REVIEW.OrderItemId(FK)

MEDIA.MediaId(FK)

REVIEW.UserId(PK, FK)

)

SHIPPED

(

LOGISTIC.LogisticID (PK, FK)

ORDER_ITEM.OrderItemID (PK, FK)

ORDER_ITEM.ApprovedCartID (PK, FK)

ADDRESS.AddressID (PK, FK)

Receipt

DeliveryDate

DeliveryStatus –enum

ShippingDate

TrackingNum

LPrice

)