Coffee Supplier

ID		Name	Quantity	Date of Delivery	Quantity	TrackingNo	DeliveryAgentID
		<u> </u>	1	1	1	1	

Functional Dependencies: Name, Quantity, Date of Delivery, Quantity, TrackingNo, DeliveryAgentId is dependent on Coffee Supplier ID (Candidate key & Primary Key)

Primary Key: ID

Candidate Key: ID

Foreign Key: DeliveryAgentID

This relation is in 2NF,3NF, BCNF.

Coffee Supplier Type

ID	Туре	

Functional Dependencies: None

Primary Key: ID + Type

Candidate Key: ID + Type

Foreign Key: ID (Coffee Supplier ID)

Coffee Supplier Address

ID	Street	State	City	Zip
				_

Functional Dependencies: None

Primary Key: ID + Street + State + City + Zip

Candidate Key: ID + Street + State + City + Zip

Foreign Key: ID (Coffee Supplier ID)

Coffee Supplier Email

ID	Email
	-

Functional Dependencies: None

Primary Key: ID + Email

Candidate Key: Id + Email

Foreign Key: Id (Coffee Supplier ID)

Coffee Supplier Phone

ID	Phone

Functional Dependencies: None

Primary Key: ID + Phone

Candidate Key: ID + Phone

Foreign Key: ID (Coffee Supplier ID)

Delivery Agent

Agen	Na	Sta	Ci	Zi	DateOfDel	Expected	Delivery	Refund	Stat	Trackin	CoffeeSh
tld	me	te	ty	p	ivery	Date	Cost	Amt	us	gNo	opld
	1	↑	1				1				

Functional Dependencies: Name, State, City, Zip, DateOfDelivery, ExpectedDate, DeliveryCost, RefundAmt, Status, TrackingNo, CoffeeShopId is dependent on AgentId.

Primary Key: AgentId

Candidate Key: AgentId

Foreign Key: CoffeeShopId

Delivery Agent Phone

DAgentId	Phone

Functional Dependency: None

Primary Key: DAgentld (Delivery Agent ID) + Phone

Foreign Key: DAgentId (Delivery Agent Id)

Delivery Agent Email

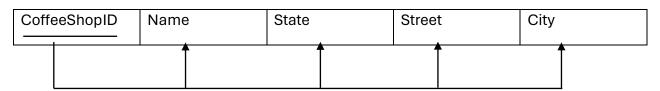
DAgentid Email	DAgentId	Email	
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Functional Dependency: None

Primary Key: DAgentId (Delivery Agent ID) + Email

Foreign Key: DAgentId (Delivery Agent Id)

Coffee Shop



Functional Dependencies: Name, State, Street, City is dependent on CoffeeShopId.

Primary Key: CoffeeShopID

Foreign Key: None

Relation is in 1NF,2NF,3NF, BCNF

Coffee Shop Phone

CShopId	Phone

Functional Dependency: None

Primary Key: CShopId (Coffee Shop ID) + Phone

Foreign Key: CShopId (Coffee Shop Id)

Coffee Shop Email

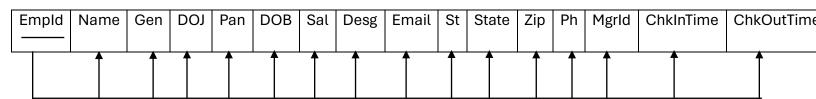
CShopId	Email

Functional Dependency: None

Primary Key: CShopId (Coffee Shop ID) + Email

Foreign Key: CShopId (Coffee Shop Id)

Employee



Functional Dependencies: Name, Gen (Gender), DOJ (Date Of Joining), Salary, Desg (Designation), Email, St (Street), State, Zip, Ph (Phone), Mgrld (Managerld), ChkInTime (CheckInTime), ChkOutTime (CheckOutTime)

Primary Key: Empld (Employeeld)

Candidate Key: Empld (Employeeld)

Foreign Key: Mgrld (Managerld)

Relation is in 1NF,2NF,3NF, BCNF

Customer

CustID	Name	Phone	City	State	Zip	Mail	DOB	Gender
					1	1		

Functional Dependencies:

Name, Phone, City, State, Zip, Mail, DOB, Gender are functionally dependent on CustID

Primary Key: CustID

Candidate Key: CustID

Foreign Key: None

Customer Transaction

Functional Dependencies: None

Primary Key: CustomerID + CoffeeID + TransactionID

Candidate Key: CustomerID + CoffeeID + TransactionID

Foreign Key: CustomerID and CoffeeID

Customer ModeOfPayment

|--|

Functional Dependencies: None

Primary Key: CustomerID + CoffeeID + ModeOfPayment

Candidate Key: CustomerID + CoffeeID + ModeOfPayment

Foreign Key: CustomerID and CoffeeID

Customer Date of Purchase

CustomerID	CoffeeID	DateOfPurchase

Functional Dependencies: None

Primary Key: CustomerID + CoffeeID + DateOfPurchase

Candidate Key: CustomerID + CoffeeID + DateOfPurchase

Foreign Key: CustomerID and CoffeeID

Customer Feedback

ColleelD Feedback

Functional Dependencies: None

Primary Key: CustomerID + CoffeeID + Feedback

Candidate Key: CustomerID + CoffeeID + Feedback

Foreign Key: CustomerID and CoffeeID

Coffee

CoffeeID	Name	SupplierID	Packaging
	<u> </u>		

Functional Dependencies: Name, SupplierID, Packaging is dependent on CoffeeID

Primary Key: CoffeeID

Candidate Key: CoffeeID

Foreign Key: None

Coffee Cost

CoffeeID	Cost

Functional Dependencies: None

Primary Key: CoffeeID + Cost

Candidate Key: CoffeeID + Cost

Foreign Key: CoffeeID

Coffee Type

CoffeeID	Туре

Functional Dependencies: None

Primary Key: CoffeeID + Type

Candidate Key: CoffeeID + Type

Foreign Key: CoffeeID

Final Coffee Cost

CoffeeID	CCost

Functional Dependencies: None

Primary Key: CoffeeID + CCost (final coffee cost after flavoring)

Candidate Key: CoffeeID + CCost

Foreign Key: CoffeeID

Coffee Weight

CoffeeID	Weight

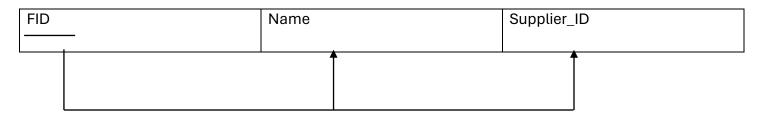
Functional Dependencies: None

Primary Key: CoffeeID + Weight

Candidate Key: CoffeeID + Weight

Foreign Key: CoffeeID

Flavors



Functional Dependencies: Name, Supplier_Id is dependent on FID

Primary Key: FID

Candidate Key: FID

Foreign Key: Supplier_ID