

ERD QUESTIONS:

- Which Parcel is sold to which Invoice by which Sender?
- Post Office keeps a track record of the parcels sold through Invoice.
- When Sender places an order, invoice will be generated by the employee.
- Every Parcel has a Tracking ID which will be tracked by the Sender.
- Some Employees work as Office Emp and some work as Post boy on the basis of their JobType.
- Parcel will be sent through Invoice by the Sender.
- Every Post Office will transfer Parcels to the GPO, which will act as a distribution channel.
- Every Parcel has some travel date, expected delivery date, current destination and status.
- Every Parcel will be tracked and every Track Item will have a history.
- A Parcel can have many items with some Qty and Rates will be decided on the basis of order.
- If a Sender wants to cancel an order an Invoice will be generated with a negative balance to cancel the order.
- Every Parcel will have one or more Stamps but invoice will not be generated for every Stamp.
- At the end of the day, a single Invoice will be generated for all the Stamps that were used on Parcels.

MAPPING:

PARCEL:

<u>ParId</u>	ParType	Weight	RatId	TracId	StampId	InsId
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RATES:

<u>RatId</u>	UpWeight	LowWeight	Price
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TRACKING:

<u>TracId</u>	TravelDate	DeliveryDate	Status

TRACKING HISTORY:

<u>TracId</u>	<u>TracSno</u>	CurrStatus	CurrLoc	Date

INVOICE:

<u>InvID</u>	InvDate	Service	RecName	RecAdd	RecPh#	TotPrice	SenId	EmpId	ParId	BranchId

SENDER:

<u>SendId</u>	SendName	SendAdd	SendCNIC	SendEmail	SendPh#	SendGender

POST OFFICE:

<u>BranchId</u>	BranchName	GPOBranchId	POType	Loc

EMPLOYEE:

<u>EmpId</u>	EmpName	EmpAdd	EmpCNIC	EmpEmail	EmpPh#	EmpGender	MgrID	JobType

INSURANCE:

<u>InsID</u>	InsType	InsPrice
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STAMPS:

<u>StampID</u>	StampType	StampPrice
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FUNCTIONAL DEPENDENCIES:

- **RateID** -> LowWeight, UpWeight, RatePrice
- **TracID** -> TravelDate, DeliveryDate, Status
- **TrackID,TrackSno** -> CurrStatus, CurrLocation, TracDate
- **InsID** -> InsType, InsPrice
- **StampID** -> StampType, StampPrice
- **ParID** -> ParType, ParWeight, RateID, StampID, TracID, InsID
- **EmpID** -> Empname, EmpGender, EmpAddress, EmpPh#, EmpMgrID, EmpEmail, EmpCNIC, EmpDOB, JobTitle
- **SendID** -> Sendname, SendGender, SendAddress, SendPh#, SendCNIC
- **InvID** -> InvDate, ParID, TracID, SendID, EmpID, RecName, RecAddress, RecPh#, Service, TotalPrice, Branch#
- **Branch#** -> GPOBranch#, BranchName, POType, Location