

Functional Dependencies:

1) Co-passenger(UserId, Fname, Lname, Email, Phone, Gender, Age)

{UserId, Fname, Lname} -> Email

{UserId, Fname, Lname} -> Phone

{UserId, Fname, Lname} -> Gender

{UserId, Fname, Lname} -> Age

Email -> Fname

Email -> Lname

Email -> Phone

Email -> Gender

Email -> Age

Phone -> Fname

Phone -> Lname

Phone -> Email

Phone -> Gender

Phone -> Age

Key: {UserId, Fname, LName}, Email, Phone

Form: 2NF

2) User (UserId, Fname, Lname, Email, Phone, Gender, Age)

UserId -> Fname

UserId -> Lname

UserId -> Email

UserId -> Phone

UserId -> Gender

UserId -> Age

Email -> UserId

Email -> Fname

Email -> Lname

Email -> Phone

Email -> Gender

Email -> Age

Phone -> UserID

Phone -> FName

Phone -> LName

Phone -> Email

Phone -> Gender

Phone -> Age

Key: UserID, Email, Phone

Form: BCNF

3) Booking (BID, UserID, BookingDate, TripStartDate, TripEndDate, Amount)

BID -> UserID

BID -> BookingDate

BID -> TripStartDate

BID -> TripEndDate

BID -> Amount

Key: BID

Form: BCNF

4) Booking_CoPassenger(BID, UserID, FName, LName)

BID -> UserID

BID -> FName

BID -> LName

Key: BID

Form: BCNF

5) Booking_for_package (BID, PackageID)

BID -> PackageID

Key: BID

Form: BCNF

6) Package (PackageID, Title, Duration, No_Of_people, Amount)

PackageID -> Title

PackageID -> Duration

PackageID -> No_Of_People

PackageID -> Amount

Key: PackageID

Form: BCNF

7) Location (pincode, city, state)

pincode -> city

pincode -> state

Key: pincode

Form: BCNF

8) Tourist_spots (spotid, Name, season, ratings, address, pincode)

spotid -> Name

spotid -> season

spotid -> ratings

spotid -> address

spotid -> pincode

address -> spotid

address -> Name

address -> season

address -> ratings

address -> pincode

Key: spotid, address

Form: BCNF

9) Package_includes_spots (packageid, spotid)

{packageid, spotid} -> packageid

{packageid, spotid} -> spotid

Key: {packageid, spotid}

Form: BCNF

10) Guide (guideid, fname, lname, email, phone, gender, age, address, pincode)

guideid -> fname

guideid -> lname

guideid -> email

guideid -> phone

guideid -> gender

guideid -> age

guideid -> address

guideid -> pincode

email -> guideid

email -> fname

email -> lname

email -> phone

email -> gender

email -> age

email -> address

email -> pincode

phone -> guideid

phone -> fname

phone -> lname

phone -> email

phone -> gender

phone -> age

phone -> address

phone -> pincode

Key: guideid, email, phone

Form: BCNF

11) Package_includes_guides (packageid, guideid)

{packageid, guideid} -> packageid

{packageid, guideid} -> guideid

Key: (packageid, guideid)

Form: BCNF

12) Restaurant (rid, Name, phone, foodtype, ratings, address, pincode)

rid -> Name

rid -> phone

rid -> foodtype

rid -> ratings

rid -> address

rid -> pincode

phone -> rid

phone -> Name

phone -> foodtype

phone -> ratings

phone -> address

phone -> pincode

address -> rid

address -> phone

address -> Name

address -> foodtype

address -> ratings

address -> pincode

Key: rid, phone, address

Form: BCNF

13) Restaurant_cuisines (rid, cuisines)

{rid, cuisines} -> rid

{rid, cuisines} -> cuisines

Key: {rid, cuisines}

Form: BCNF

14) Hotel (hotelid, Name, phone, foodtype, ratings, address, isactive, pincode)

hotelid -> Name

hotelid -> phone

hotelid -> foodtype

hotelid -> ratings

hotelid -> address

hotelid -> isactive

hotelid -> pincode

phone -> hotelid

phone -> Name

phone -> foodtype

phone -> ratings

phone -> address

phone -> isactive

phone -> pincode

address -> hotelid

address -> Name

address -> phone

address -> foodtype

address -> ratings

address -> isactive

address -> pincode

Key: hotelid, phone, address

Form: BCNF

15) Hotel_services (hotelid, services)

{hotelid, services} -> hotelid

{hotelid, services} -> services

Key: {hotelid, services}

Form: BCNF

16) Room (hotelid, room_no, Type, beds, capacity, rate, status)

{hotelid, room_no} -> hotelid

{hotelid, room_no} -> room_no

{hotelid, room_no} -> Type

{hotelid, room_no} -> beds

{hotelid, room_no} -> capacity

{hotelid, room_no} -> rate

{hotelid, room_no} -> status

Key: {hotelid, room_no}

Form: BCNF

17) Room_facilities (hotelid, roomno, facility)

{hotelid, roomno, facility} -> hotelid

{hotelid, roomno, facility} -> roomno

{hotelid, roomno, facility} -> facility

Key: {hotelid, roomno, facility}

Form: BCNF

18) Package_includes_hotels (packageid, hotelid, roomno)

{packageid, hotelid, roomno} -> packageid

{packageid, hotelid, roomno} -> hotelid

{packageid, hotelid, roomno} -> roomno

Key: {packageid, hotelid, roomno}

Form: BCNF

19) Booking_for_hotel (bid, hotelid, roomno)

{bid, hotelid, roomno} -> bid

{bid, hotelid, roomno} -> hotelid

{bid, hotelid, roomno} -> roomno

Key: {bid, hotelid, roomno}

Form: BCNF