DATA DICTIONARY

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PROCESSES

Process Name: 1.O Find train/Cancel

Description: User Details are received and user searches details of the required train.

Inbound Data Flows:User Data, Train Data,Station Data,Cancel Data

Outbound Data Flows: Schedule Data

Process Name: 1.1 Availability

Description: Selected train details are verified and checked for availability of seats

Inbound Data Flows: Schedule Data

Outbound Data Flows:Class and Seats data

Process Name: 1.2 Get Fare

Description: Fares are shown According to the entered train details

Inbound Data Flows:Schedule Data, class data

Outbound Data Flows: Class and Seats data

Process Name: 1.3 Book Details

Description: Finally train is booked according to the selected details

Inbound Data Flows: Schedule data, passenger data

Outbound Data Flows: Reservation Data

DATA FLOW NAMES

Name**:** User Data

Description: Contains general information entered by user

From Processes:

To Processes: 1.0 Find Train/Cancel

Data Structures: User table**:-**

COLUMN	TYPE	CONSTRAINT	DESCRIPTION	EXAMPLE
id(primary key)	int(11)	NOT NULL	Unique key to	4

		AUTO_INCREMENT	identify user	
email_id	varchar(50)	NOT NULL	User's email id	abc@gmail.com
mob_no	varchar(10)	NOT NULL	User's mobile no	1234567890
dob	int	NOT NULL	User's date of birth	16-11-2000

Name: Train Data
Description:Contains information about the train
From Processes:
To Processes: 1.0 Find Train/Cancel
Data Structures: Train Table:-

COLUMN	**TYPE**	**CONSTRAINT**	**DESCRIPTION**	**EXAMPLE**
train_no(primary key)	int(11)	NOT NULL AUTO_INCREMENT	Unique no. for trains	6
t_name	varchar(50)	NOT NULL	Train name for each train	Shatabdi Express
sp	varchar(50)	NOT NULL	Starting point each train	Chandigarh
st	time	NOT NULL	Starting time for each train	1:00:12
dp	varchar(50)	NOT NULL	Destination point for each train	Delhi
dt	time	NOT NULL	Destination time for each train	16:00:12
dd	varchar(10)	DEFAULT NULL	Day of the running train	Day 1

distance	int	NOT NULL	Distance bw starting point and ending point	700

Name: Station Data
Description:Contains information about station
From Processes:
To Processes: 1.0 Find Train
Data Structures:Station Table:-

COLUMN	TYPE	CONSTRAINT	DESCRIPTION	EXAMPLE
id	int(11)	NOT NULL AUTO_INCREMENT	ID to identify each station	2
s_name(primary key)	varchar(50)	NOT NULL	Station name	Chandigarh

Name: Schedule Data
Description: Contains information about train id,timings and other details
From Processes: 1.0 Find Train/Cancel
To Processes: 1.1 Availability, 1.2 Get Fare, 1.3 Book Details
Data Structures:Schedule Table:-

COLUMN	TYPE	CONSTRAINT	DESCRIPTION	EXAMPLE
id(primary key)	int(11)	NOT NULL AUTO_INCREMENT	Unique ID for scheduled journey	1

train_no	int(11)	NOT_NULL	Train No.for each train	13
s_name	varchar(50)	NOT_NULL	Station name	CHANDIGARH
arrival_time	time	NOT_NULL	Arrival time for each train	11:50:10
departure_time	time	NOT NULL DEFAULT	Departure time for each train	16:30:00
distance	int(11)	NOT NULL	Journey distance	150

Name: Class and Seats Data
Description: Contains inform train seats and class of seats
From Processes: 1.1 Availability
To Processes:
Data Structures:Class and Seats Table
Composite primary key=(train_no,sp,dp,doj,class)

COLUMN	**TYPE**	**CONSTRAINT**	**DESCRIPTION**	**EXAMPLE**
train_no	int(11)	NOT NULL	Train number for each train	12
sp	varchar(50)	NOT NULL	Starting Point for each train	Chandigarh
dp	varchar(50)	NOT NULL	Destination Point for each train	Jaipur
doj	date	NOT NULL	Date of journey	2021-3-15
class	varchar(10)	NOT NULL	Class seat	AC1
fare	int(11)	NOT NULL	Fare of train	2200
seats_left	int(11)	NOT NULL	No.of seats left	107

Name: Class Data
Description: Contains information about type of seats
From Processes: 1.2 Get Fare
To Processes:
Data Structures: Class Table

COLUMN	TYPE	CONSTRAINT	DESCRIPTION	EXAMPLE
c_name(primary key)	varchar(10)	NOT NULL	class name	AC1

Name: Passenger Data
Description: Contains information about the passenger
From Processes:
To Processes: 1.3 Book Details
Data Structures: Passenger Table
Composite primary key=(pnr, p_name, p_age,p_gender)

COLUMN	TYPE	CONSTRAINT	DESCRIPTION	EXAMPLE
pnr	int(11)	NOT NULL	Passenger's ID	58
p_name	varchar(50)	NOT NULL	Passenger's name	Akhil
p_age	int(11)	NOT NULL	Passenger's age	19
p_gender	varchar(10)	NOT NULL	Passenger's gender	Male

Name: Reservation Data
Description:Contains information about Train reservations
From Processes:1.3 Book Details
To Processes:
Data Structures:Reservation Table:-

COLUMN	TYPE	CONSTRAINT	DESCRIPTION	EXAMPLE
pnr(primary key)	int(11)	NOT NULL AUTO INCREMENT	Passenger Id	51
id	int(11)	NOT NULL	Unique reservation id	4
train_no	int(11)	NOT NULL	Train no.of the train	12
sp	varchar(50)	NOT NULL	Starting point for the train	Chandigarh
dp	varchar(50)	NOT NULL	Destination point for train	Delhi
doj	date	NOT NULL	Date of journey	2021-3-7
tfare	int(11)	NOT NULL	Train fare	3300
class	varchar(50)	NOT NULL	Class type of the seat	AC1
nos	int(11)	NOT NULL	No. of selected seats	2
status	varchar(50)	NOT NULL	Booked or Cancelled	Booked

Name:Cancel Data
Description:Contains information about cancelled ticket
From Processes:
To Processes: 1.O Find Train/Cancel
Data Structures:Cancel Table:-

COLUMN	TYPE	CONSTRAINT	DESCRIPTION	EXAMPLE
pnr(primary key)	int(11)	NOT NULL	Determines passenger id	57
r_fare	int(11)	DEFAULT 0	Journey fare	1100