**Logical Data Model**

1. **Transacton Table :-**

|  |  |  |  |
| --- | --- | --- | --- |
| S.no. | Column Name | Data type | Description |
|  | Transaction\_id | Long | primary key for the Transaction table.Identity of each transaction. |
|  | Transaction\_type | Number(2) | 0 = EMI transaction  1 = Credit Card transaction  2 = Debit Card transaction  3 = Cash Card transaction  4 = DreamHalt Points transaction |
|  | Transaction\_description | VARCHAR(25) | Description of transaction details sent by Payment Gateway.(credited timestamp, Cardsheme details, bank detail, currency detail) |
|  | Transaction\_total\_amount | Long | Total amount of Transaction occurred during a single payment action. |
|  | Transaction\_request\_amount | Long) | It stores the amount sent in request xml to third party from our application |
|  | Transaction\_credited\_amount | Long | Amount which has been credited to dreamhalt account. |
|  | Transaction\_3rdparty\_amount | Long | It stores the phone number of the user. |
|  | Transaction\_init\_time | Timestamp | Date and time of initialization of transaction in Payment Gateway. |
|  | Transaction\_credited\_time | Timestamp | Date and time of Completeness of transaction in Payment Gateway. |
|  | Transaction\_status | VARCHAR(20) | Trn\_Status\_0 : Transaction is complete and successful .  Trn\_Status\_1 : Transaction has been unsuccessful due to third party service unavailability or delay of the third part service response. |
|  | Risk\_Factor | Long | 0 = Genuine transaction  1 = Suspicious transaction  2 = Risky transaction  3 = Fraudulent transaction |
|  | Customer\_email\_id | VARCHAR(40) | Mail id of the concerned customer who initiated the payment . |
|  | Transaction\_Number | Varchar(50) | It stores the Transaction NNo sent by third Party. |
|  | Transaction\_bank\_name | Varchar(50) | Store bank name of the transaction |
| 15. | Transaction\_Currency | Varchar(50) | Store currency of the transaction type |
| 16. | Transaction\_branch\_address | Varchar(50) | Store branch location / address of the transaction took place. |

**2. Payment Table :-**

|  |  |  |  |
| --- | --- | --- | --- |
| S.no. | Column Name | Data type | Description |
|  | Payment\_id | Long | Unique identification of payment, primary key |
|  | Customer name | Varchar(50) | Name of the Customer who initiates Payment. |
|  | Customer\_eamil\_id | Varchar(250) | Email address of the Customer who initiates Payment. |
|  | Final Amount | Double | Total amount which is sent to third Party Payment Gateway for final deduction. |
|  | Miscellaneous amount | Double | Service tax + including third party client’s commision. |
|  | Discounted amount | Double | Amount deducted which is applied by some valid coupon code. |
|  | Actual\_property\_amount | Double | Original amount of the booking for the booking. |
|  | Applied\_dreamhalt\_points | number | Dreamhalt points which is successfully applied by user before proceeding for payment |
|  | City | Varchar(40) | City of the user. |
|  | Country | Varchar(40) | Country of the user. |
|  | Payment\_time | Timestamp | Timestamp when customer click on the Payment button on Payment summary page. |
|  | Payment\_status | number | 0 : Payment is confirmed and successful.  1 : Payment is initiated after just clicking on the Payment button in the Payment summary page.  2 : Payment is pending due to no response from third party transaction or delay of the response.  3 : Payment is partially done which means not the correct amount has been deducted from customer account but third party transaction response comes as successful.  4 : Payment is not successful, some error occurred in third party transaction and it comes as unsuccessful.  5 : Payment is going to be cancelled and a refund request is initiated.  6 : Payment cancellation is not successful which means some error occurred in third party refund transaction and refund is unsuccessful.  7 : Payment cancellation successful which means refund has been successful. |
|  | Payment\_type | Number | 0 = Regular Payment  1= Cancellation of Payment/Refund |
|  | Refund\_id | Long | Foreign key of the Refund Table |
|  | Applied\_coupon\_code | Varchar(20) | If any coupon code applied by customer regarding that payment. |
|  | Transaction\_id | Long | Foreign key of the Transaction Table |
| 17. | Booking\_category | Number | 0 = Advance booking  1 = Complete booking |
| 18. | IP\_Address | Varchar(20) | Ip\_address of the system from where payment is triggered. |
| 19. | Payment\_currency | Varchar(20) | Currency written along with the residence list. |
| 20. | Payment\_By | Varchar(20) | email-id of the user who is doing payment for himself or on behalf of others. |

**3. Booking Table :-**

|  |  |  |  |
| --- | --- | --- | --- |
| S.no. | Column Name | Data type | Description |
|  | Booking\_id | Long | It stores the auto generated primary key that identifies a Booking uniquely. |
|  | Booking\_type | Number | 0 = Advance Booking  1= Complete Booking  2 = Cancel Booking |
|  | Booking\_status | Number | 0 : Booking confirmed and running which means yet to travel  1 : Booking is closed which means travel completed successfully.  2 : Booking is with error and not confirmed which means there is some error in payment of the same.  3 : Booking is pending which means booking is initiated and payment is done but there is some delay in getting the response from third party service.  4 : Booking cancellation initiated.  5 : Booking cancellation complete and successful.  6 : Booking cancellation is pending for the delay response from the third party.  7 : Booking cancellation is unsuccessful due to the error in the payment and third party transaction.  8 : Booking confirmed but host detected as suspicious.  9 : Booking confirmed but guest detected as suspicious.  10 : Others |
|  | Property\_id | Long | Foreign key of the Property Table |
|  | Payment\_id | Long | Foreign key of the Payment Table |
|  | Customer\_name | Varchar(20) | Name of the customer whose name is going to be booked. |
|  | Customer\_email\_id | Varchar(20) | email-id of the customer who is going to be booked. |
|  | No\_of\_persons | number | Total number of persons going to be booked |
|  | Special\_demands | Varchar(20) | Any extra demands raised by Customers. |
|  | Food\_Preference | number | 0 = vegeterian  1 = non-vegeterian  2 = ege-terian |
|  | Doc\_id\_proof | blob | Document id proof scan copy of the customer |
|  | Verification\_id | Long | Foreign key of the Verification Table |
|  | Verification\_index | Number | 0 = Verified (all documents provided)  1 = Half-verified (half documents provided)  2 = Low verified (only one document provided and no social network account found)  3 = Risk(document not provided) |
|  | Doc\_address\_proof | blob | Document address proof scan copy of the customer |
|  | Contact\_no | Varchar(20) | Contact number of the customer |
|  | Neighbour’s\_contact | Varchar(20) | Contact number of any neighbour. |
|  | Refund\_id | Long | Foreign key of the Refund Table |
| 18. | Book\_by | Varchar(20) | email-id of the user who is booking for himself or on behalf of others. |
| 19. | Book\_By\_contact | Varchar(20) | Contact number of the user who book on behalf of others or himself. |
| 20. | Booking\_description | Varchar(20) | Description of the booking. |
| 21. | Booking\_init\_date | Timestamp | Timestamp of booking initiated |
| 22. | Stay\_date\_from | Timestamp | date from when customer will stay |
| 23. | Stay\_date\_to | Timestamp | Till date customer will stay |
| 24. | No\_of\_rooms\_book | number | Total no of rooms booked by the user. |
| 25. | Booking\_init\_date | Timestamp | Timestamp of booking confirmed. |

**4. Event Table :-**

|  |  |  |  |
| --- | --- | --- | --- |
| S.no. | Column Name | Data type | Description |
|  | Event\_id | Long | It stores the auto generated primary key that identifies an Event uniquely. |
|  | Event\_Description | Varchar(200) | Description of the Event, going to be updated on action by action. |
|  | Booking\_id | Long | Foreign key of the Booking Table |
|  | Payment\_id | Long | Foreign key of the Payment Table |
|  | Transaction\_id | Long | Foreign key of the Transaction Table |
|  | Event\_start\_date |  | Initialization date of the booking. |
| 7. | Event\_status | Varchar(20) | * Status\_000 : If Payment is successful, Transaction is successful and then booking is also successful(which is real time positive scenario). * Status\_001 : If Payment is successful, Transaction is successful but booking is not successful.(which should not happen, it’s an exceptional scenario). * Status\_010 : If Payment is successful, Transaction is not successful and then booking is successful(which should not also happen, it’s an exceptional scenario). * Status\_011 : If Payment is \_successful, Transaction is not successful and then booking is also not successful.(which should not also happen, it’s an exceptional scenario). * Status\_111 : If Payment is not successful, Transaction is not successful and then booking is not also successful.(which is real time positive scenario). * Status\_110 : If Payment is not successful, Transaction is not successful but booking is successful.(which should not also happen, it’s an exceptional scenario). * Status\_100 : If Payment is not successful, Transaction is successful and then booking is successful.(which should not also happen, it’s an exceptional scenario). * Status\_101 : If Payment is not successful, Transaction is successful and then booking is not successful.(which should not also happen, it’s an exceptional scenario). |
| 8. | Property\_id | Long | Foreign key of the Property Table |
| 9. | Customer\_name | Varchar(200) | Name of the Customer going to stay. |
| 10. | Customer\_email\_id | Varchar(200) | Email address of the customer going to stay. |
| 11. | Customer\_contact\_no | Varchar(200) | Contact Number of the customer going to stay. |
| 12. | Event\_PNR\_No | Long | Unique booking confirmation number. |
| 13. | Stay\_Pass\_ticket | Blob | Ticket of confirmation of the booking. |
| 14 | Book\_By\_name | Varchar(200) | Name of the user who did booking. |
| 15. | Book\_by\_email | Varchar(200) | Email Id of the user who did booking. |
| 16. | Book\_by\_contact\_no | Varchar(200) | Contact Number of the user who did booking. |
| 17. | SMS | Varchar(200) | Description Message sent to booker’s mail id and contact no. |

**5. Refund Table :-**

|  |  |  |  |
| --- | --- | --- | --- |
| S.no. | Column Name | Data type | Description |
|  | Refund\_id | Long | It stores the auto generated primary key that identifies an Refund uniquely. |
|  | Refund\_amount | Double | Total amount going to refund |
|  | Refund\_description | Varchar(200) | Refund description |
|  | Cancellation\_reason | Varchar(100) | Reason of cancellation |
|  | Refund\_sms | Varchar(100) | Sms send to the user about refund confirmation. |
| 7. | Refund\_status | number | Same as Booking status |
| 7. | Refund\_by | Varchar(100) | Name of the user who did Refund action |
| 8. | Refund\_by\_email | Varchar(100) | Email Id of the user who did Refund action |
| 9. | Currency | Varchar(10) | Currency used in Booking |

**6. Booking\_Extras Table :-**

|  |  |  |  |
| --- | --- | --- | --- |
| S.no. | Column Name | Data type | Description |
|  | Customer\_name | Varchar(100) | Name of the Customer |
|  | Customer\_address | Varchar(100) | Address of the Customer |
|  | Customer\_id\_docs | blob | Scan copy of the id proof of customer |
|  | Customer\_address\_doc | blob | Scan copy of the address proof of customer |
|  | Customer\_photo | blob | Photo of the customer. |
| 6. | RelationShip | Varchar(100) | Relationship with the person who is booking. |
| 7. | Gender | Varchar(100) | M/F/O |
| 8. | Email\_id | Varchar(100) | Email id of the Customer |
| 9. | Contac\_no | Varchar(100) | Contact No of the Customer |
| 10. | Booking\_id | Long | Foreign key of Booking table |