**Brillant Travel Account Database Design**

**AcCat:** Master table of all AcCat

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S#** | **Column Name** | **Description** | **Key** | **Data Type** | **Comments** |
| 1 | **AcCat** | AcCat identifier | P | smallint | 1,2,3… |
| 2 | AcCat | AcCat name | U, N | NVC(20) | Debit, Credit |

**Accounts:** Master table of all Accounts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S#** | **Column Name** | **Description** | **Key** | **Data Type** | **Comments** |
| 1 | **AccountID** | Accounts identifier | P | int | 1,2,3 …. |
| 2 | AcNumber | Accounts name | N | Int |  |
| 3 | AcName |  | N | NVC(20) |  |
| 4 | CatID |  | N, FK | Smallint | Foreign Key of **AcCat** table |
| 5 | Balance\_Amt |  | N | money |  |

**Agent:** Master table of all Agent

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| **S#** | **Column Name** | **Description** | **Key** | **Data Type** | **Comments** |
| 1 | **Agent\_ID** | Agent identifier | P | int | 1, 2, 3, … |
| 2 | Agent\_Name | Name of Agent | N | VC(50) | Name of Agent. |
| 3 | Agent\_Status | Status of Agent |  | Char(1) | 1 for Active, 0 for Closed |

**Expenses\_Category:** Master table of Expenses\_Category

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S#** | **Column Name** | **Description** | **Key** | **Data Type** | **Comments** |
| 1 | **CategoryId** | Expenses\_Category identifier | P | int | 1, 2, 3 …. |
| 2 | Payable\_Code |  | N | VC(50) | AP, Daily Expenses |

**AirLines:** Master table of all AirLines

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S#** | **Column Name** | **Description** | **Key** | **Data Type** | **Comments** |
| 1 | **Air\_ID** | AirLines identifier | P | CHAR(2) | 20, 21, 23 …. |
| 2 | Payable\_Code | Code of Air lines | U, NN | VC(50) | Code of Air lines eg. Jumbo, 71, Jeffery |
| 3 | Payable\_Supplier | Supplier Name | N | VC(50) | Supplier Name eg Jumbo Mart Farrine |
| 4 | Ticket\_Commission | Ticket Commission | N | D(5,2) | Ticket Commission e.g 6.00 |
| 5 | VAT | VAT | N | D(5,2) | VAT e.g 16.00 |
| 6 | Cat\_ID |  | NN, FK | int | Foreign Key of **Expenses\_Category** table |

**Bank:** Master table of all Bank

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S#** | **Column Name** | **Description** | **Key** | **Data Type** | **Comments** |
| 1 | **Bank\_ID** | Bank identifier | P | Int | 1,2,3 … |
| 2 | Bank\_Name | Bank name | N | VC(50) | Cash, RAWBANK |
| 3 | Status | Status of record to be active | N | Bit | Default ‘1’: Active record. 0: Not active record; CHECK Constraints |

**TicketClass:** Table of all TicketClass.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S#** | **Column Name** | **Description** | **Key** | **Data Type** | **Comments** |
| 1 | TicketClass\_ID | TicketClass identifier | P | Int | ID of TicketClass. For example 1, 2, … |
| 2 | TicketClass\_ID | TicketClass name | U, NN | VC(50) | Business, Economy |
| 3 | Ticket\_Class\_Status |  |  | char(1) | Default ‘1’: Active record. 0: Not active record; CHECK Constraints |

**Customers:** (Client/ Customer of project)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S#** | **Column Name** | **Description** | **Key** | **Data Type** | **Comments** |
| 1 | **Cust\_ID** | Customer identifier | P | Int | Serial number. Such as 1, 2, 3, … |
| 2 | Lookup | Customer name | N | VC(200) | Auto Calculated. Eg. Cust\_Code + Company\_Name |
| 3 | Cust\_Code | Customer code | N | VC(200) |  |
| 4 | Company\_Name |  | N | VC2(200) |  |
| 5 | Contact\_Name |  | N | VC(200) | Default ‘Y’: Active record. N: Not active record. CHECK Constraints |
| 6 | Address |  | N | VC(max) |  |
| 7 | City |  | N | VC(150) |  |
| 8 | State |  | N | VC(150) |  |
| 9 | ZIP\_Code |  | N | VC(50) |  |
| 10 | Phone |  | N | VC(50) |  |
| 11 | Email |  | N | VC(200) |  |
| 12 | Fax |  | N | VC(200) |  |

**DailyExpenses:** (Daily Expenses of Company)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S#** | **Column Name** | **Description** | **Key** | **Data Type** | **Comments** |
| 1 | **Exp\_Code** | identifier | P | Char(3) | Serial number. Such as 100, 101, 102, … |
| 2 | Account | Expenses name | N | VC(150) | Helene Rent, Fuel, Office Expense |
| 3 | Contact\_Name | Person | N | VC(150) | Richard, Alphonse |
| 4 | Cat\_ID |  | NN, FK | int | Foreign Key of **Expenses\_Category** table |

**Income\_Stream:** (Amount receivable / Income Stream)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S#** | **Column Name** | **Description** | **Key** | **Data Type** | **Comments** |
| 1 | **Stream\_ID** | identifier | P | Char(2) | Serial number. Such as 01, 02, 03… |
| 2 | Stream\_Name |  | NN | VC(50) | Commission, Hotel, Refund, Cargo Income |
| 3 | Stream\_Status | Whether Income is active or blocked |  | CHAR(1) | 1: Active record. 0: Not active record. CHECK Constraints |

**Invoice\_Details :** Master table of all Invoice\_Details

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S#** | **Column Name** | **Description** | **Key** | **Data Type** | **Comments** |
| 1 | **Invoice\_Number** | identifier | P | int | Auto Increment Starting with 1200001, 1200002, …. |
| 2 | Invoice\_Date |  | N | date |  |
| 3 | Ticket\_Number |  | N | VC(50) |  |
| 4 | Description |  | N | VC(50) | Passenger Name |
| 5 | Routing |  | N | VC(50) |  |
| 6 | Departure\_Date |  | N | Datetime |  |
| 7 | Arrival\_Date |  | N | Datetime |  |
| 8 | Paid |  | NN | D(8,2) | Default ‘0’. CHECK Constraints |
| 9 | Invoice\_Amount |  | N | D(8,2) |  |
| 10 | Base\_Fare |  | N | D(8,2) |  |
| 11 | Total\_Value |  | N | D(8,2) |  |
| 12 | Tax |  | N | D(8,2) |  |
| 13 | Other\_Cost |  | N | D(8,2) |  |
| 14 | Stream\_ID |  | N, FK | Char(2) | Foreign Key of **Income\_Stream** table |
| 15 | Net\_Payable |  | N | D(8,2) |  |
| 16 | Paid2 |  | N | D(8,2) |  |
| 17 | Other\_Ref |  | N | VC(200) |  |
| 18 | Cust\_Code |  | N, FK | Int | Foreign Key of **Customers** table |
| 19 | Payable\_Code |  | N, FK | Char(2) | Foreign Key of **AirLines** table |
| 20 | Agent\_ID |  | N, FK | int | Foreign Key of **Agent** table |
| 21 | Ticket\_Commission |  | N | D(8,2) |  |
| 22 | Commission\_Amount |  | N | D(8,2) |  |
| 23 | VAT |  | N | D(8,2) |  |
| 24 | VAT\_Amount |  | N | D(8,2) |  |
| 25 | TicketClass\_ID |  | N, FK | int | Foreign Key of **TicketClass** table |
| 26 | Pay\_Status |  | N | char(1) | 1: for Paid to Airlines, 0: for Not Paid to Airlines |
| 27 | ReceivePay\_Status |  | N | char(1) | 1: for Received from Airlines, 0: for Not Received from Airlines |
| 28 | Ticket\_Status |  | N | char(2) | 01: for Sale, 02: for Exchange, 03: for Refund, 04: for N/A |
| 29 | Customer\_Penalty |  | N | D(8,2) |  |
| 30 | AirLine\_Penalty |  | N | D(8,2) |  |
| 31 | User\_Name |  | N | NVC(256) | Login id of who enter the record |

**Voucher:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S#** | **Column Name** | **Description** | **Key** | **Data Type** | **Comments** |
| 1 | **VID** | identifier | P | int | Auto Increment Starting with 10001, 10002, …. |
| 2 | Bank\_ID |  | N, FK | int | Foreign Key of **Bank** table |
| 3 | Bank\_Cash\_Receiveable |  | NN | char(1) |  |
| 4 | Payable\_Code |  | N, FK | char(2) | Foreign Key of **AirLine** table |
| 5 | Exp\_Code |  | N, FK | char(3) | Foreign Key of **DailyExpenses** table |
| 6 | Cust\_Code |  | N, FK | Int | Foreign Key of **Customers** table |
| 7 | Received\_Paid\_Date |  | N | DATE |  |
| 8 | AccountID |  | N, FK | int | Foreign Key of **Accounts** table |
| 9 | DrCr |  | N | nvarchar(2) |  |
| 10 | Amount |  | N | money |  |
| 11 | Narration |  | N | VC(max) |  |
| 12 | Received\_Paid |  | N | VC(50) |  |
| 13 | User\_Name |  | N | NVC(256) | Login id of who enter the record |