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

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

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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)	

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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)	

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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

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