

# SQL

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—————This paper is made only using free software—————

## 1 Tables

### 1.1 User

```
CREATE TABLE 'User' (
    id          int(10) NOT NULL AUTO_INCREMENT,
    staff_code  int(10) NOT NULL UNIQUE,
    password    int(10) NOT NULL,
    name        varchar(255),
    surname     varchar(255),
    address     varchar(255),
    agency      varchar(255) NOT NULL,
    Groupid    int(10) NOT NULL,
    PRIMARY KEY (id));
```

### 1.2 Permission

```
CREATE TABLE Permission (
    id          int(10) NOT NULL AUTO_INCREMENT,
    codename    varchar(10) NOT NULL UNIQUE,
    name        varchar(255) NOT NULL UNIQUE,
    content_type_id int(10) NOT NULL,
    PRIMARY KEY (id));
```

### 1.3 Blank

```
CREATE TABLE Blank (
    number           int(10) NOT NULL AUTO_INCREMENT,
    type            int(10) NOT NULL,
    is_sold         bit(1) NOT NULL,
    is_refunded    bit(1) NOT NULL,
    Customerid     int(10) NOT NULL,
    'date'          date NOT NULL,
```

```
User_Bank_AssignmentUserId      int(10) NOT NULL,  
User_Bank_AssignmentBlanknumber int(10) NOT NULL,  
PRIMARY KEY (number),  
UNIQUE INDEX (number));
```

## 1.4 Payment

```
CREATE TABLE Payment (  
    Blanknumber  int(10) NOT NULL,  
    amount       int(10) NOT NULL,  
    type         bit(1) NOT NULL,  
    is_valid     bit(1) NOT NULL,  
    is_regular   bit(1) NOT NULL,  
    Currencytype int(10) NOT NULL,  
    Discounttype bit(1),  
    PRIMARY KEY (Blanknumber));
```

## 1.5 Report

```
CREATE TABLE Report (  
    id           int(10) NOT NULL AUTO_INCREMENT,  
    period_from  date NOT NULL,  
    period_to    date NOT NULL,  
    created_on   date NOT NULL,  
    is_global    bit(1) NOT NULL,  
    number       int(10) NOT NULL,  
    sales_office_place varchar(255) NOT NULL,  
    PRIMARY KEY (id));
```

## 1.6 Group

```
CREATE TABLE 'Group' (  
    id   int(10) NOT NULL AUTO_INCREMENT,  
    name varchar(255) NOT NULL UNIQUE,  
    PRIMARY KEY (id));
```

## 1.7 Report Blank Inclusion

```
CREATE TABLE Report_Bank_Inclusion (  
    Reportid    int(10) NOT NULL,  
    Blanknumber int(10) NOT NULL,  
    PRIMARY KEY (Reportid,  
    Blanknumber));
```

## 1.8 Group Permissions

```
CREATE TABLE Group_Permissions (
    Groupid      int(10) NOT NULL UNIQUE,
    Permissionid int(10) NOT NULL,
    PRIMARY KEY (Groupid,
    Permissionid));
```

## 1.9 Ticket Stock Turnover Report

```
CREATE TABLE Ticket_Stock_Turnover_Report (
    Reportid          int(10) NOT NULL,
    agent_received_blank_from int(10) NOT NULL,
    agent_received_blank_to   int(10) NOT NULL,
    agent_used_from       int(10) NOT NULL,
    agent_used_to         int(10) NOT NULL,
    sub_agent_from        int(10) NOT NULL,
    sub_agent_to          int(10) NOT NULL,
    PRIMARY KEY (Reportid));
```

## 1.10 Domestic Sales Report

```
CREATE TABLE Domestic_Sales_Report (
    Reportid          int(10) NOT NULL,
    fare_base_ngl      int(10) NOT NULL,
    fare_base_usd      int(10) NOT NULL,
    cash_local          int(10) NOT NULL,
    cheque_local        int(10) NOT NULL,
    invoice_local        int(10) NOT NULL,
    credit_usd          int(10) NOT NULL,
    taxes                int(10) NOT NULL,
    total_amount_paid    int(10) NOT NULL,
    commissions_assessable_amount int(10) NOT NULL,
    commission_rate      int(10) NOT NULL,
    notes                varchar(255),
    total_net_amount_airvia int(10) NOT NULL,
    total_commission_amount int(10) NOT NULL,
    net_amounts_for_agent_debit int(10) NOT NULL,
    PRIMARY KEY (Reportid));
```

## 1.11 Interline Sales Report

```
CREATE TABLE Interline_Sales_Report (
    Reportid          int(10) NOT NULL,
    taxes_LZ            int(10) NOT NULL,
    taxes_OTHS          int(10) NOT NULL,
```

```

commission_rate      int(10) NOT NULL,
cash                int(10) NOT NULL,
credit_lc           int(10) NOT NULL,
credit_usd          int(10) NOT NULL,
credit_local         int(10) NOT NULL,
non_assess_amount   int(10) NOT NULL,
total_net_to_airvia int(10) NOT NULL,
airvia_n            int(10) NOT NULL,
airvia_amount        int(10) NOT NULL,
airvia_bank_acc_no  int(10) NOT NULL,
airvia_doc_no        int(10) NOT NULL,
airvia_date          date NOT NULL,
PRIMARY KEY (Reportid));

```

## 1.12 User Blank Assignment

```

CREATE TABLE User_Bank_Assignment (
    Userid      int(10) NOT NULL,
    Blanknumber int(10) NOT NULL,
    comission_rate int(10) NOT NULL,
    PRIMARY KEY (Userid,
    Blanknumber));

```

## 1.13 Currency

```

CREATE TABLE Currency (
    type int(10) NOT NULL AUTO_INCREMENT,
    rate int(10) NOT NULL,
    PRIMARY KEY (type));

```

## 1.14 Discount

```

CREATE TABLE Discount (
    type bit(1) NOT NULL,
    rate int(10),
    PRIMARY KEY (type));

```

## 1.15 Customer

```

CREATE TABLE Customer (
    id      int(10) NOT NULL AUTO_INCREMENT,
    is_regular bit(1) NOT NULL,
    is_valued bit(1) NOT NULL,
    name    varchar(255) NOT NULL,
    surname varchar(255) NOT NULL,
    address  varchar(500),

```

```
PRIMARY KEY (id));
```

### 1.16 Report User

```
CREATE TABLE Report_User (
    Reportid      int(10) NOT NULL,
    Userid        int(10) NOT NULL,
    relationship_type int(10) NOT NULL,
    PRIMARY KEY (Reportid,
    Userid));
```

### 1.17 Global Domestic Sales

```
CREATE TABLE Global_Domestic_Sales (
    Domestic_Sales_ReportReportid int(10) NOT NULL,
    agent_id          int(10) NOT NULL,
    ttl_ttk_reported_num int(10) NOT NULL,
    PRIMARY KEY (Domestic_Sales_ReportReportid));
```

### 1.18 Individual Domestic Sales Report

```
CREATE TABLE Individual_Domestic_Sales_Report (
    Domestic_Sales_ReportReportid int(10) NOT NULL,
    num_of_tickets            int(10) NOT NULL,
    original_issued_num       int(10) NOT NULL,
    other_details             varchar(255),
    airvia_n                  int(10) NOT NULL,
    airvia_amount              int(10) NOT NULL,
    airvia_bank_acc           int(10) NOT NULL,
    airvia_doc_no              int(10) NOT NULL,
    airvia_date                date NOT NULL,
    PRIMARY KEY (Domestic_Sales_ReportReportid));
```

### 1.19 Individual Interline Sales Report

```
CREATE TABLE Individual_Interline_Sales_Report (
    Interline_Sales_ReportReportid int(10) NOT NULL,
    number_of_tickets            int(10) NOT NULL,
    original_issue_no           int(10) NOT NULL,
    fa_usd                      int(10),
    fa_usd_local                int(10),
    airline_docs_no              int(10) NOT NULL,
    airline_fc                   int(10) NOT NULL,
    airline_pror_amnt           int(10) NOT NULL,
    airline_cd                   int(10) NOT NULL,
    PRIMARY KEY (Interline_Sales_ReportReportid));
```

## 1.20 Global Interline Sales Report

```
CREATE TABLE Global_Interline_Sales_Report (
    Interline_Sales_ReportReportid int(10) NOT NULL,
    advisor_no int(10) NOT NULL,
    doc_no_acpns int(10) NOT NULL,
    fare_amount int(10) NOT NULL,
    airvia_docs int(10) NOT NULL,
    airvia_fcpns int(10) NOT NULL,
    airvia_prorate_amounts int(10) NOT NULL,
    other_airline_docs int(10) NOT NULL,
    other_airline_fcpns int(10) NOT NULL,
    other_airline_prorate_amounts int(10) NOT NULL,
    PRIMARY KEY (Interline_Sales_ReportReportid));
```

## 1.21 Card Information

```
name      varchar(255) NOT NULL,
surname   varchar(255) NOT NULL,
no        int(10) NOT NULL AUTO_INCREMENT,
cvv       int(10) NOT NULL,
password  int(10) NOT NULL,
card_type varchar(255) NOT NULL,
Customerid int(10) NOT NULL,
PRIMARY KEY (no));
```

## 1.22 Foreign Keys

```
ALTER TABLE Payment ADD CONSTRAINT FKPayment981424 FOREIGN KEY (Blanknumber)
REFERENCES Blank (number);
ALTER TABLE Report_Bank_Inclusion ADD CONSTRAINT FKReport_Bla496473
FOREIGN KEY (Blanknumber) REFERENCES Blank (number);
ALTER TABLE Group_Permissions ADD CONSTRAINT FKGroup_Perm423461 FOREIGN
KEY (Groupid) REFERENCES 'Group' (id);
ALTER TABLE Group_Permissions ADD CONSTRAINT FKGroup_Perm527187 FOREIGN
KEY (Permissionid) REFERENCES Permission (id);
ALTER TABLE Domestic_Sales_Report ADD CONSTRAINT FKDomestic_S819725
FOREIGN KEY (Reportid) REFERENCES Report (id);
ALTER TABLE Interline_Sales_Report ADD CONSTRAINT FKInterline_761250
FOREIGN KEY (Reportid) REFERENCES Report (id);
ALTER TABLE Ticket_Stock_Turnover_Report ADD CONSTRAINT FKTicket_Sto281292
FOREIGN KEY (Reportid) REFERENCES Report (id);
ALTER TABLE User_Bank_Assignment ADD CONSTRAINT FKUser_Bank506842
FOREIGN KEY (Userid) REFERENCES 'User' (id);
ALTER TABLE Payment ADD CONSTRAINT FKPayment811398 FOREIGN KEY (Currencytype)
REFERENCES Currency (type);
```

```

ALTER TABLE Payment ADD CONSTRAINT FKPayment232106 FOREIGN KEY (Discounttype)
REFERENCES Discount (type);
ALTER TABLE Report_Bank_Inclusion ADD CONSTRAINT FKReport_Bla560650
FOREIGN KEY (Reportid) REFERENCES Report (id);
ALTER TABLE Blank ADD CONSTRAINT FKBlank371617 FOREIGN KEY (Customerid)
REFERENCES Customer (id);
ALTER TABLE Blank ADD CONSTRAINT FKBlank490598 FOREIGN KEY (User_Bank_AssignmentUserid,
User_Bank_AssignmentBlanknumber) REFERENCES User_Bank_Assignment
(Userid, Blanknumber);
ALTER TABLE 'User' ADD CONSTRAINT FKUser810444 FOREIGN KEY (Groupid)
REFERENCES 'Group' (id);
ALTER TABLE Report_User ADD CONSTRAINT FKReport_Use649540 FOREIGN KEY
(Reportid) REFERENCES Report (id);
ALTER TABLE Report_User ADD CONSTRAINT FKReport_Use116167 FOREIGN KEY
(Userid) REFERENCES 'User' (id);
ALTER TABLE Global_Domestic_Sales ADD CONSTRAINT FKGlobaDom370294
FOREIGN KEY (Domestic_Sales_ReportReportid) REFERENCES Domestic_Sales_Report
(Reportid);
ALTER TABLE Individual_Domestic_Sales_Report ADD CONSTRAINT FKIndividual345877
FOREIGN KEY (Domestic_Sales_ReportReportid) REFERENCES Domestic_Sales_Report
(Reportid);
ALTER TABLE Individual_Interline_Sales_Report ADD CONSTRAINT FKIndividual1995737
FOREIGN KEY (Interline_Sales_ReportReportid) REFERENCES Interline_Sales_Report
(Reportid);
ALTER TABLE Global_Interline_Sales_Report ADD CONSTRAINT FKGlobaInt467036
FOREIGN KEY (Interline_Sales_ReportReportid) REFERENCES Interline_Sales_Report
(Reportid);
ALTER TABLE Card_Informatin ADD CONSTRAINT FKCard_Infor761361 FOREIGN
KEY (Customerid) REFERENCES Customer (id);

```

## 2 Queries

### 2.1 Create Groups

```

INSERT INTO 'Group' (id,name) VALUES(1,'Admin');
INSERT INTO 'Group' (id,name) VALUES(2,'Manger');
INSERT INTO 'Group' (id,name) VALUES(3,'Advisor');

```

### 2.2 Create Users

```

INSERT INTO 'User' (id,staff_code,password,name,surname,address,agency,Groupid) VALUES ();

```

```
INSERT INTO 'User' (id,staff_code,password,name,surname,address,agency,Groupid) VALUES ()  
INSERT INTO 'User' (id,staff_code,password,name,surname,address,agency,Groupid) VALUES ()  
INSERT INTO user (id,staff_code,password,name,surname,address,agency,Groupid)  
VALUES (452,11,990403,'Peter','Stefanov','15 Red Wall','HH',10);
```

### 2.3 Login Users

```
SELECT staff_code,password FROM User
```

### 2.4 Update User Address

```
UPDATE 'User' SET address = 'house10 road10 postcode10' WHERE id = 7;  
Output: ''7','700','0','mert','Pitt','house10 road10 postcode10','3'
```

### 2.5 Update User Password

```
UPDATE 'User' SET password = 123456789 WHERE id = 7;  
Output: '7','700','123456789','mert','Pitt','house10 road10 postcode10','agency7','3'
```

### 2.6 Delete a User

```
DELETE FROM 'User' WHERE id = 7;
```

### 2.7 Assign a Group to a User

```
SELECT User.name, User.surname, 'Group'.name  
FROM USER  
INNER JOIN 'Group' ON User.Groupid = 'Group'.id;
```

### 2.8 Assign Blanks to a User

```
INSERT INTO User_Bank_Assignment (Userid,Blanknumber,comission_rate) VALUES (2,1234,2.5);  
INSERT INTO Customer (id,is_regular,is_valued,name,surname,address) VALUES (452,0,1,'Peter','Stefanov','15 Red Wall');  
INSERT INTO blank (number,type,is_sold,is_refunded,Customerid,date,User_Bank_Assignment_id) VALUES (451,13,0,1,452,'2008-11-11',2,1234);  
INSERT INTO user_bank_assignment (Userid,Blanknumber,comission_rate) VALUES (452,41236,12);
```

### 2.9 Update the Assigned User for Blanks

```
UPDATE User_Bank_Assignment SET Userid = 3 WHERE Userid = 2;
```

### 2.10 Update the Group for the User

```
UPDATE User SET Groupid = 2 WHERE id = 3;
```

## **2.11 Create Permissions**

```
INSERT INTO Permission VALUES(2,'add_blank','can add blank',1);
INSERT INTO Permission VALUES(3,'change_blank','can change blank',1);
INSERT INTO Permission VALUES(4,'view_logentry','can view log entry',2);
INSERT INTO Permission VALUES(5,'delete_logentry','can delete log entry',2);
INSERT INTO Permission VALUES(6,'add_group','can add group',3);
```

## **2.12 Delete permissions**

```
DELETE FROM Permission WHERE id = 2;
```

## **2.13 Assign Permissions to a Group**

```
INSERT INTO Group_Permissions (Groupid,Permissionid) VALUES (1,2);
INSERT INTO Group_Permissions (Groupid,Permissionid) VALUES (1,3);
INSERT INTO Group_Permissions (Groupid,Permissionid) VALUES (1,4);
INSERT INTO Group_Permissions (Groupid,Permissionid) VALUES (1,5);
INSERT INTO Group_Permissions (Groupid,Permissionid) VALUES (1,6);
INSERT INTO Group_Permissions (Groupid,Permissionid) VALUES (2,3);
INSERT INTO Group_Permissions (Groupid,Permissionid) VALUES (2,4);
INSERT INTO Group_Permissions (Groupid,Permissionid) VALUES (3,5);
INSERT INTO Group_Permissions (Groupid,Permissionid) VALUES (2,6);
```

## **2.14 Get Permissions for a Group**

```
SELECT Permission.content_type_id, Group_Permissions.Permissionid, 'Group'.id FROM Group_
INNER JOIN 'Group'
ON 'Group'.id = Group_Permissions.Groupid
LEFT JOIN Permission
ON Group_Permissions.Permissionid = Permission.id;
```

## **2.15 Remove Permissions from a Group**

```
DELETE FROM Group_Permissions WHERE Groupid = 1 AND Permissionid = 2;
```

## **2.16 Register a Customer**

```
INSERT INTO customer (id,is_regular,is_valued,name,surname,address)
VALUES (452,1,1,'Peter','Stefanov','15 Red Wall');
```

## **2.17 Create a Blank**

```
INSERT INTO blank (number,type,is_sold,is_refunded,Customerid,date,User_Bank_Assignment)
VALUES (41236,3,1,0,452,'2008-11-11',452,41236);
```

## **2.18 Create a Currency**

```
INSERT INTO currency (type,rate)
VALUES (true,13);
```

## **2.19 Register Discount**

```
INSERT INTO discount (type,rate)
VALUES (true,13);
```

## **2.20 Register Payment**

```
INSERT INTO payment (Blanknumber, amount, type, is_valid, is_regular, Currencytype, Disc
VALUES (41236,100,true,1,1,true,true);
```

## **2.21 Create Report**

Report

```
INSERT INTO Report (id,period_from,period_to,created_on,is_global,number,sales_office_p
INSERT INTO Report (id,period_from,period_to,created_on,is_global,number,sales_office_p
VALUES (2,'2020-05-01','2020-05-20','2020-04-30',1,12340,'sales office2');
```

## **2.22 Create Domestic Sales Report**

```
INSERT INTO Domestic_Sales_Report (Reportid,fare_base_ngl,fare_base_usd,cash_local,cheque
VALUES (1,220,240,200,220,220,235,10,230,240,10,'FIRST FARE SALE',250,20,15);
```

## **2.23 Create Global Domestic Sales Report**

```
INSERT INTO Global_Domestic_Sales (Domestic_Sales_ReportReportid,agent_id,ttl_ttk_report
VALUES (1,111,67890);
```

## **2.24 Read a Global Domestic Sales Report**

```
SELECT Domestic_Sales_Report.* , Global_Domestic_Sales.* , Report.*
FROM ((Report
INNER JOIN Domestic_Sales_Report ON Report.id = Domestic_Sales_Report.Reportid)
INNER JOIN Global_Domestic_Sales ON Report.id = Global_Domestic_Sales.Domestic_Sales_Reportid)
```

## **2.25 Create an Interline Sales Report**

```
INSERT INTO Interline_Sales_Report (Reportid,taxes_LZ,taxes_OTHs,commission_rate,cash,cr
VALUES (2,30,40,10,300,330,340,320,300,350,40,300,123456789,23450,'2020-05-01')
```

## **2.26 Create a Global Interline Sales Report**

```
INSERT INTO Global_Interline_Sales_Report (Interline_Sales_ReportReportid,advisor_no,doc
VALUES (2,112,23450,300,444,445,300,20,55,400);
```

## **2.27 Read a Global Interline Sales Report**

```
SELECT Report.*, Interline_Sales_Report.*, Global_Interline_Sales_Report.*  
FROM ((Report  
INNER JOIN Interline_Sales_Report ON Report.id = Interline_Sales_Report.Reportid)  
INNER JOIN Global_Interline_Sales_Report ON Report.id = Global_Interline_Sales_Report.In
```