

# 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_Blank_AssignmentUserid      int(10) NOT NULL,
User_Blank_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_Blank_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_Blank_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_Blank_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_Blank_Assignment ADD CONSTRAINT FKUser_Blank506842  
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_Blank_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_Blank_AssignmentUserid,
User_Blank_AssignmentBlanknumber) REFERENCES User_Blank_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 FKGlobal_Dom370294
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 FKIndividual995737
FOREIGN KEY (Interline_Sales_ReportReportid) REFERENCES Interline_Sales_Report
(Reportid);
ALTER TABLE Global_Interline_Sales_Report ADD CONSTRAINT FKGlobal_Int467036
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 (
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_Blank_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,'Pet
IINSERT INTO blank (number,type,is_sold,is_refunded,Customerid,date,User_Blank_Assignmen
VALUES (451,13,0,1,452,'2008-11-11',2,1234);
INSERT INTO user_blank_assignment (Userid,Blanknumber,comission_rate)
VALUE (452,41236,12);

```

## 2.9 Update the Assigned User for Blanks

```

UPDATE User_Blank_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_Permissions
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_Blank_Assignmentid)
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, Discount)
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_pl)
INSERT INTO Report (id,period_from,period_to,created_on,is_global,number,sales_office_pl)
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
```