

# SQL: Appendix A: The Airline Database

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## Database Schema

**Airport**(Airport, AName, CheckIN, Resvtns, FlightInfo)

**Route**(RouteNo, RDescription)

**Fares**(FareType, FDescription)

**Tariff**(RouteNo, FareType, Price)

**Aircraft**(AircraftType, ADescription, NoSeats)

**Flight**(FlightNo, *FromAirport*, *ToAirport*, DepTime, ArrTime, Service, *AircraftType*, *RouteNo*)

**Passenger**(Pid, Name, Address, TelNo)

**Ticket**(TicketNo, TicketDate, *Pid*)

**Itinerary**(TicketNo, FlightNo, LegNo, FlightDate, *FareType*)

## Table Specifications

CREATE TABLE Airport

(airport char(4) not null,

aname varchar(20),

checkin varchar(50),

resvtns varchar(12),

flightinfo varchar(12) );

CREATE TABLE Route

( routeno integer1 not null,

rdescription varchar(40) );

CREATE TABLE Fares

(faretype char(3) not null,

fdescription varchar(25),

conditions varchar(40) );

CREATE TABLE Tariff

(routeno integer1 not null,

faretype char(3) not null,

price money );

CREATE TABLE Aircraft

( aircrafttype char(3) not null,

adescription varchar(40),

noseats smallint );

CREATE TABLE Flight

( flightno varchar(5) not null,

fromairport char(4),

toairport char(4),

deptime char(5),

arrtime char(5),

service varchar(20),

aircrafttype char(3),

routeno integer1 );

CREATE TABLE Passenger

(pid integer not null,

name varchar(20),

address varchar(40),

telno varchar(12) );

CREATE TABLE Ticket

(ticketno integer not null,

ticketdate date,

pid integer );

CREATE TABLE Itinerary

(ticketno integer not null,

flightno varchar(5) not null,

legno integer1 not null,

flightdate date,

faretype char(3) );

## Table Data

### AIRPORT:

## AIRPORT ANAME CHECKIN RESVTNS FLIGHTINFO

-----

AMST Amsterdam South Hall Departures 20 mins before flight 06 022 2426 20 178299

BELF Belfast Desks 18 and 19, 15 mins before flight 023 2325151 08494 22888

BIRM Birmingham Check-in desks 20 mins before flight 021 236 0121

BRUS Brussels Sabena check-in desks 30 mins before flight 2 511 9030 2 7207167

EMID East Midlands Check-in 15 mins before flight for heavy bags 0332 810552 0332 852614

DUBL Dublin Check-in 20 mins prior to departure 01 423 555

EDIN Edinburgh Gate 1 at least 10 mins before departure 031 447 1000

GLAS Glasgow Desks 60-64/Gate 8 20 mins before departure 041 204 2436

HROW Heathrow Island A/B Terminal-1 20 mins before flight 081 5895599 081 7457321

LBDR Leeds/Bradford Check-in 15 mins before flight for baggage 0532 451991

LVPL Liverpool 15 mins heavy baggages,10 mins hand baggage 051 494 0200

PARI Paris Hall 22 Terminal 1 30 mins before flight 14742 14444 14862 2280

TEES Teeside 15 mins heavy baggages,10 mins hand baggage 0642 219444

**ROUTE:**

ROUTENO RDESCRIPTION

-----

3 Heathrow-Belfast

4 Heathrow-Edinburgh

6 Heathrow-Leeds/Bradford

7 Heathrow-Liverpool

8 Heathrow-Teeside

9 Birmingham-Brussels

11 East Midlands-Belfast

13 East Midlands-Paris

14 Heathrow-Birmingham

15 Heathrow-East Midlands

**FARES:**

FARETYPE FDESCRIPTION CONDITIONS

-----

BUR Business Return Business use only

SDS Standard Single

SDR Standard Return

EUR Eurobudget Return Available Paris Brussels Amsterdam

KFS Key Fare Single

SBS Standby Single

EXR Excursion Return Same day return

PXR Super Key Return

APR Advanced Purchase Return 60 days advanced booking

SXR Superpex Return 90 days advanced booking

**TARIFF:**

ROUTENO FARETYPE PRICE

-----

3 BUR 117

3 SDR 158

3 SDS 79

4 SDR 162

4 SBS 49

6 BUR 117

6 SBS 42

6 KFS 53

7 SDR 128

8 SDS 74

9 PXR 153

9 EUR 181

9 APR 95

11 KFS 59

13 EXR 121

14 SDR 110

14 SBS 33

15 SBS 33

**FLIGHT:**

FLIGHTNO FROMAIRPORT TOAIRPORT DEPTIME ARRTIME SERVICE AIRCRAFTTYPE  
ROUTENO

-----

BD80 HROW BELF 0725 0840 Breakfast 737 3

BD82 HROW BELF 0930 1045 Breakfast 737 3

BD91 BELF HROW 1730 1840 Dinner 737 3

BD95 BELF HROW 2120 2230 Dinner 737 3

BD54 ROW EDIN 1040 1155 Breakfast 737 4

BD51 EDIN HROW 0710 0825 Breakfast 737 4

BD412 HROW LBDR 0850 0945 Breakfast DC9 6

BD414 HROW LBDR 1145 1235 Light Meal DC9 6

BD413 LBDR HROW 1020 1115 Light Meal DC9 6

BD419 LBDR HROW 1845 1940 Dinner DC9 6

BD582 HROW LVPL 0810 0900 Breakfast DC9 7

BD589 LVPL HROW 1925 2015 Dinner DC9 7

BD332 HROW TEES 0835 0935 Breakfast DC9 8

BD651 BIRM BRUS 0730 0935 Breakfast DC9 9

BD655 BIRM BRUS 1500 1705 Afternoon Tea DC9 9

BD657 BIRM BRUS 1730 1935 Dinner DC9 9

BD659 BIRM BRUS 1825 2030 Dinner DC9 9

BD652 BRUS BIRM 1005 1010 Breakfast DC9 9

BD656 BRUS BIRM 1750 1755 Afternoon Tea DC9 9

BD658 BRUS BIRM 2005 2010 Dinner DC9 9

BD660 BRUS BIRM 2100 2105 Dinner DC9 9

BD275 EMID BELF 1800 1855 Dinner DC9 11

BD255 EMID PARI 1250 1455 Lunch DC9 13

BD257 EMID PARI 1530 1735 Afternoon Tea DC9 13

BD256 PARI EMID 1530 1540 Afternoon Tea DC9 13

BD258 PARI EMID 1810 1820 Dinner DC9 13

BD772 HROW BIRM 0810 0900 Coffee ATP 14

BD774 HROW BIRM 1045 1130 Coffee ATP 14

BD776 HROW BIRM 1230 1320 Coffee ATP 14

BD778 HROW BIRM 1310 1355 Coffee ATP 14

BD780 HROW BIRM 1530 1625 Coffee ATP 14

BD782 HROW BIRM 1755 1840 Coffee ATP 14

BD771 BIRM HROW 0655 0745 Breakfast ATP 14

BD773 BIRM HROW 0930 1015 Coffee ATP 14

BD775 BIRM HROW 1200 1245 Coffee ATP 14

BD777 BIRM HROW 1420 1505 Coffee ATP 14

BD779 BIRM HROW 1640 1725 Coffee ATP 14

BD781 BIRM HROW 2010 2100 Coffee ATP 14

BD222 HROW EMID 0755 0845 Coffee ATP 15

BD224 HROW EMID 1100 1150 Coffee ATP 15

BD226 HROW EMID 1415 1505 Coffee ATP 15

BD228 HROW EMID 1655 1745 Coffee ATP 15

BD230 HROW EMID 1945 2035 Coffee ATP 15

BD221 EMID HROW 0645 0725 Breakfast ATP 15

BD223 EMID HROW 1235 1325 Coffee ATP 15

BD225 EMID HROW 1235 1325 Coffee ATP 15

BD227 EMID HROW 1535 1625 Coffee ATP 15

BD229 EMID HROW 1805 1855 Coffee ATP 15

AIRCRAFT:

AIRCRAFTTYPE ADESCRIPTION NOSEATS

-----

ATP Advanced Turbo Prop 48

DC9 McDonnel Douglas Jet 120

737 Boeing 737-300 Jet 300

PASSENGER:

PID NAME ADDRESS Tel No

-----

26 J Millar Englewood Cliffs 061 343 881

28 J D Ullman 1 Microsoft Way

29 A Smithson 16 Bedford St 071 577 890

30 D Etheridge 4 Maylands Avenue

34 E Simon 8 Cherry Street

10 D N Hamer 1 St Paul's Churchyard

20 D E Avison 5 Chancery Lane

21 G B Davis 25 Allenby Road

24 C Evans 63 Kew Green

90 A N Smith 81 Digby Crescent 071 321 456

91 T Pittman The Little House

92 J Peters 31 Lucas Road

93 K E Kendall 11 Rosedale Avenue

94 R H Miller 155 Kingston Road 0638 4672

### **TICKET:**

TICKETNO TICKETDATE PID

-----

100001 01/08/94 26

100002 25/07/94 28

100010 09/08/94 29

100011 11/08/94 24

100012 01/06/94 21

100020 15/08/94 30

100021 28/07/94 34

100022 05/07/94 20

100030 30/08/94 94

100041 01/08/94 91

100051 01/09/94 92

100052 01/09/94 93

100100 15/09/94 94

### **ITINERARY:**

TICKETNO FLIGHTNO LEGNO FLIGHTDATE FARETYPE

-----

100001 BD80 1 05/08/94 BUR

100001 BD95 2 05/08/94 BUR

100002 BD80 1 05/08/94 SDR

100002 BD95 2 10/08/94 SDR  
100010 BD82 1 10/08/94 SDS  
100011 BD54 1 12/08/94 SBS  
100012 BD776 1 15/08/94 SDR  
100012 BD655 2 15/08/94 APR  
100012 BD652 3 20/08/94 APR  
100012 BD775 4 20/08/94 SDR  
100020 BD772 1 20/08/94 SBS  
100020 BD655 2 20/08/94 EUR  
100020 BD652 3 23/08/94 EUR  
100021 BD412 1 02/08/94 SBS  
100021 BD419 2 07/08/94 SBS  
100022 BD412 1 07/08/94 BUR  
100022 BD419 2 08/08/94 BUR  
100030 BD224 1 01/09/94 SBS  
100030 BD255 2 02/09/94 EXR  
100030 BD256 3 06/09/94 EXR  
100030 BD275 4 06/09/94 KFS  
100041 BD412 1 02/08/94 KFS  
100051 BD582 1 07/09/94 SDR  
100051 BD589 2 07/09/94 SDR  
100052 BD332 1 09/09/94 SDS  
100100 BD51 1 24/09/94 SDR  
100100 BD774 2 24/09/94 SDR  
100100 BD659 3 25/09/94 PXR  
100100 BD658 4 01/10/94 PXR  
100100 BD771 5 02/10/94 SDR  
100100 BD54 6 02/10/94 SDR

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