**QUESTION 1**

select serial\_no,a.typecode, pt.typedesc

from airplane a, plane\_type pt

where a.typecode = pt.typecode

SERIAL\_NO TYPECO TYPEDESC

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877694 B737 Short-to-medium-range airplane.

338157 B747 Extended flight range.

921225 A320 Typical two-class cabin layout.

562911 A380 Payload of 150 tonnes.

220989 A320 Typical two-class cabin layout.

456710 B747 Extended flight range.

650012 A320 Typical two-class cabin layout.

756392 B747 Extended flight range.

924817 B737 Short-to-medium-range airplane.

208731 A380 Payload of 150 tonnes.

10 rows selected

**QUESTION 2**

select pt.typecode, count(serial\_no)

from plane\_type pt, airplane a

where pt.typecode = a.typecode

group by pt.typecode;

TYPECO COUNT(SERIAL\_NO)

------ ---------------------------------------

A320 3

B747 3

A380 2

B737 2

**QUESTION 3**

select p.pilot\_no, pl\_name, c.typecode

from pilot p, certificate c

where p.pilot\_no = c.pilot\_no

order by p.pilot\_no desc, c.typecode;

PILOT\_NO PL\_NAME TYPECO

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351 Molly Ivans A320

351 Molly Ivans A380

351 Molly Ivans B737

350 Cathryn Jones B737

350 Cathryn Jones B747

349 Vince Gill A320

349 Vince Gill A380

348 Claire Parton A380

348 Claire Parton B737

348 Claire Parton B747

347 Kim Costner A320

347 Kim Costner B737

347 Kim Costner B747

346 Tracy Lange A320

346 Tracy Lange B737

346 Tracy Lange B747

345 George Wilson A320

345 George Wilson A380

345 George Wilson B737

345 George Wilson B747

20 rows selected

**QUESTION 4**

select c.citycode, cityname, state, arprtdesc, f.flight\_no

from city\_srvd c, flight f

where c.citycode = f.org\_citycode;

CIT CITYNAME ST ARPRTDESC FLIGHT\_NO

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IND Indianapolis IN City 1 in Indiana 534

IND Indianapolis IN City 1 in Indiana 521

CLE Cleveland OH City 1 in Ohio 573

CVG Cincinnati OH City 3 in Ohio 590

FWA Ft Wayne IN City 2 in Indiana 577

SDF Louisville KY City 1 in Kentuky 531

EVV Evansville IN City 3 in Indiana 501

7 rows selected

**QUESTION 5**

select f.flight\_no, f.org\_citycode, c.cityname, f.deptime, sf.fl\_date

from flight f, city\_srvd c, schd\_flight sf

where c.citycode = f.org\_citycode

and f.flight\_no = sf.flight\_no

and f.flight\_no = 534;

FLIGHT\_NO ORG CITYNAME DEPTIME FL\_DATE

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534 IND Indianapolis 01-JAN-18 05-MAR-18

534 IND Indianapolis 01-JAN-18 06-MAR-18

534 IND Indianapolis 01-JAN-18 08-MAR-18

**QUESTION 6**

select r.ps\_name, p.ps\_street, p.ps\_city, p.ps\_state, p.ps\_zip

from flight f, schd\_flight sf, passenger p, reservation r

where f.flight\_no = sf.flight\_no

and sf.flight\_no = r.flight\_no

and sf.fl\_date = r.fl\_date

and r.ps\_name = p.ps\_name

and r.ps\_phone = p.ps\_phone

and f.flight\_no = 534

and sf.fl\_date = '06-MAR-18';

PS\_NAME PS\_STREET PS\_CITY PS PS\_ZIP

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Rob Ferris 2005 N. State St West Lafayette IN 49814

Sandra Jackson 220 Public sq Lafayette TN 37083

Tina Rice 1812 Hayes St Nashville TN 37203

**QUESTION 7**

select distinct p.pilot\_no, p.pl\_name, pt.typecode

from pilot p, plane\_type pt, schd\_flight sf, airplane a

where p.pilot\_no = sf.pilot\_no

and sf.serial\_no = a.serial\_no

and a.typecode = pt.typecode

and p.pilot\_no = 345;

PILOT\_NO PL\_NAME TYPECO

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345 George Wilson B737

345 George Wilson B747

345 George Wilson A380

**QUESTION 8**

select sf.flight\_no, sf.fl\_date,

count(r.ps\_name)

from schd\_flight sf, reservation r

where sf.flight\_no = r.flight\_no(+)

and sf.fl\_date = r.fl\_date(+)

group by sf.flight\_no, sf.fl\_date

order by sf.flight\_no;

FLIGHT\_NO FL\_DATE COUNT(R.PS\_NAME)

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501 05-MAR-18 2

501 06-MAR-18 1

501 07-MAR-18 1

521 07-MAR-18 1

521 09-MAR-18 1

531 05-MAR-18 0

531 06-MAR-18 0

534 05-MAR-18 7

534 06-MAR-18 3

534 08-MAR-18 0

577 08-MAR-18 2

577 09-MAR-18 2

590 05-MAR-18 2

590 07-MAR-18 2

590 09-MAR-18 1

15 rows selected

**QUESTION 9**

select distinct

(select count(a.flight\_no)

from schd\_flight a

where fl\_date = '05-MAR-18')as A,

(select count(b.flight\_no)

from schd\_flight b

where fl\_date <> '05-MAR-18') as B

from schd\_flight;

A B

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4 11

**QUESTION 10**

select f.flight\_no, abc.totalwaittime,

round((f.arrtime - f.deptime - abc.totalwaittime),4)as motiontime

from flight f,

(select i.flight\_no,

round(sum(i.int\_deptime-i.int\_arrtime),4)as totalwaittime

from int\_city i

group by i.flight\_no, i.int\_citycode) abc

where f.flight\_no = abc.flight\_no;

FLIGHT\_NO TOTALWAITTIME MOTIONTIME

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521 .0521 .125

534 .0625 .1667

573 .0521 .1562

501 .0208 .2188

501 .0625 .1771

577 .0313 .1736

6 rows selected