James Sirman

CIS 333 Database & SQL

1.

mysql> select CharTrip, CharDate, ACNum, CharDestination from charter;

+----------+-----------+-------+-----------------+

| CharTrip | CharDate | ACNum | CharDestination |

+----------+-----------+-------+-----------------+

| 10001 | 05-Feb-06 | 2289L | ATL |

| 10002 | 05-Feb-06 | 2778V | BNA |

| 10003 | 05-Feb-06 | 4278Y | GNV |

| 10004 | 06-Feb-06 | 1484P | STL |

| 10005 | 06-Feb-06 | 2289L | ATL |

| 10006 | 06-Feb-06 | 4278Y | STL |

| 10007 | 06-Feb-06 | 2778V | GNV |

| 10008 | 07-Feb-06 | 1484P | TYS |

| 10009 | 07-Feb-06 | 2289L | GNV |

| 10010 | 07-Feb-06 | 4278Y | ATL |

| 10011 | 07-Feb-06 | 1484P | BNA |

| 10013 | 08-Feb-06 | 4278Y | TYS |

| 10014 | 09-Feb-06 | 4278Y | ATL |

| 10015 | 09-Feb-06 | 2289L | GNV |

| 10016 | 09-Feb-06 | 2778V | MQY |

| 10017 | 10-Feb-06 | 1484P | STL |

| 10018 | 10-Feb-06 | 4278Y | TYS |

+----------+-----------+-------+-----------------+

1. rows in set (0.00 sec)

2.

mysql> select CharDate, ACNum, CharDestination, CharDistance, CharHoursFlown

from charter where charter.ACNum ='2778V';

+-----------+-------+-----------------+--------------+----------------+

| CharDate | ACNum | CharDestination | CharDistance | CharHoursFlown |

+-----------+-------+-----------------+--------------+----------------+

| 05-Feb-06 | 2778V | BNA | 320 | 1.6 |

| 06-Feb-06 | 2778V | GNV | 1574 | 7.9 |

| 08-Feb-06 | 2778V | MOB | 884 | 4.8 |

| 09-Feb-06 | 2778V | MQY | 312 | 1.5 |

+-----------+-------+-----------------+--------------+----------------+

4 rows in set (0.00 sec)

3.

mysql> select \* from AC2778v;

+-----------+-------+-----------------+--------------+----------------+

| CharDate | ACNum | CharDestination | CharDistance | CharHoursFlown |

+-----------+-------+-----------------+--------------+----------------+

| 05-Feb-08 | 2778V | BNA | 320 | 1.6 |

| 06-Feb-08 | 2778V | GNV | 1574 | 7.9 |

| 09-Feb-08 | 2778V | MQY | 312 | 1.5 |

+-----------+-------+-----------------+--------------+----------------+

3 rows in set (0.03 sec)

4.

mysql> select distinct CharDate, ACNum, CharDestination, CustLastName,

CustAreaCode, CustPhone from charter, customer

where charter.CustCode = customer.CustCode and ACNum = '2778v';

+-----------+-------+-----------------+--------------+--------------+-----------

+

| CharDate | ACNum | CharDestination | CustLastName | CustAreaCode | CustPhone

|

+-----------+-------+-----------------+--------------+--------------+-----------

+

| 05-Feb-08 | 2778V | BNA | Brown | 615 | 297-1228

|

| 06-Feb-08 | 2778V | GNV | Smith | 615 | 894-2285

|

| 08-Feb-08 | 2778V | MOB | Ramas | 615 | 844-2573

|

| 09-Feb-08 | 2778V | MQY | Dunne | 713 | 894-1238

|

+-----------+-------+-----------------+--------------+--------------+-----------

+

4 rows in set (0.01 sec)

5.

mysql> select charter.charDate, charter.charDestination, charter.ACNum, model.modName, model.ModChgMile from model, aircraft, charter where model.modCode = aircraft.modCode and aircraft.ACNum = charter.ACNum and charter.charDate = '06-Feb-06';

+-----------+-----------------+-------+------------------+------------+

| charDate | charDestination | ACNum | modName | ModChgMile |

+-----------+-----------------+-------+------------------+------------+

| 06-Feb-08 | ATL | 2289L | KingAir | 2.67 |

| 06-Feb-08 | STL | 1484P | Aztec | 1.93 |

| 06-Feb-08 | GNV | 2778V | Navajo Chieftain | 2.35 |

| 06-Feb-08 | STL | 4278Y | Navajo Chieftain | 2.35 |

+-----------+-----------------+-------+------------------+------------+

4 rows in set (0.00 sec)

6.

mysql> select distinct charter.charDate, charter.charDestination, charter.ACNum,

model.modName, model.ModChgMile, customer.CustLastName from model, aircraft, charter, customer

where model.modCode = aircraft.modCode and aircraft.ACNum = Charter.ACNum and charter.CustCode = Customer.CustCode and charter.chardate >= '09-feb-06';

+-----------+-----------------+-------+------------------+------------+--------------+

| charDate | charDestination | ACNum | modName | ModChgMile | CustLastName |

+-----------+-----------------+-------+------------------+------------+--------------+

| 09-Feb-08 | GNV | 2289L | KingAir | 2.67 | Brown |

| 10-Feb-08 | STL | 1484P | Aztec | 1.93 | Orlando |

| 09-Feb-08 | MQY | 2778V | Navajo Chieftain | 2.35 | Dunne |

| 09-Feb-08 | ATL | 4278Y | Navajo Chieftain | 2.35 | Williams |

| 10-Feb-08 | TYS | 4278Y | Navajo Chieftain | 2.35 | Williams |

+-----------+-----------------+-------+------------------+------------+--------------+

5 rows in set (0.00 sec)

7.

mysql> select distinct charter.charDate, charter.charDestination, charter.ACNum,

model.modChgMile, charter.CharDistance, crew.EmpNum, crew.crewJob,

employee.EmpLName

from model, aircraft, charter, crew, Employee

where model.modCode = aircraft.modCode and aircraft.ACNum = Charter.ACNum and

charter.CharTrip = crew.chartrip and crew.EmpNum = Employee.EmpNum and

charter.charDate >= '09-feb-08';

+-----------+-----------------+-------+------------+--------------+--------+---------+----------+

| charDate | charDestination | ACNum | modChgMile | CharDistance | EmpNum | crewJob | empLName |

+-----------+-----------------+-------+------------+--------------+--------+---------+----------+

| 09-Feb-08 | GNV | 2289L | 2.67 | 1645 | 101 | Copilot | Lewis |

| 09-Feb-08 | GNV | 2289L | 2.67 | 1645 | 104 | Pilot | Lange |

| 10-Feb-08 | STL | 1484P | 1.93 | 508 | 101 | Pilot | Lewis |

| 09-Feb-08 | MQY | 2778V | 2.35 | 312 | 105 | Copilot | Williams |

| 09-Feb-08 | MQY | 2778V | 2.35 | 312 | 109 | Pilot | Travis |

| 09-Feb-08 | ATL | 4278Y | 2.35 | 936 | 106 | Pilot | Duzak |

| 10-Feb-08 | TYS | 4278Y | 2.35 | 644 | 104 | Copilot | Lange |

| 10-Feb-08 | TYS | 4278Y | 2.35 | 644 | 105 | Pilot | Williams |

+-----------+-----------------+-------+------------+--------------+--------+---------+----------+

8 rows in set (0.00 sec)

8.

mysql> select distinct charter.charDate, charter.ACNum, model.modName,

charter.CharHoursFlown, charter.CharFuelGallons,

(charter.CharFuelGallons/charter.charHoursFlown) as "fuel per hour"

from model, charter, aircraft

where model.modCode = aircraft.modCode and aircraft.ACNum = Charter.ACNum and

charter.charDate >= '09-feb-06';

+-----------+-------+------------------+----------------+-----------------+---------------+

| charDate | ACNum | modName | CharHoursFlown | CharFuelGallons | fuel per hour |

+-----------+-------+------------------+----------------+-----------------+---------------+

| 09-Feb-06 | 2289L | KingAir | 6.7 | 459.5 | 68.58209 |

| 10-Feb-06 | 1484P | Aztec | 3.1 | 105.5 | 34.03226 |

| 09-Feb-06 | 2778V | Navajo Chieftain | 1.5 | 67.2 | 44.80000 |

| 09-Feb-06 | 4278Y | Navajo Chieftain | 6.1 | 301.6 | 49.44262 |

| 10-Feb-06 | 4278Y | Navajo Chieftain | 3.8 | 167.4 | 44.05263 |

+-----------+-------+------------------+----------------+-----------------+---------------+

5 rows in set (0.00 sec)

9.

mysql> select distinct charter.charDate, customer.custLastName, charter.charDistance, model.modChgMile, round((model.modChgMile\*charter.charDistance),2) as mileageChg

from model, charter, aircraft, customer where model.modCode = aircraft.modCode and aircraft.ACNum = Charter.ACNum and charter.custCode = customer.custCode and charter.charDate >= '09-feb-06';

+-----------+--------------+--------------+------------+------------+

| charDate | custLastName | charDistance | modChgMile | mileageChg |

+-----------+--------------+--------------+------------+------------+

| 09-Feb-06 | Brown | 1645 | 2.67 | 4392.15 |

| 10-Feb-06 | Orlando | 508 | 1.93 | 980.44 |

| 09-Feb-06 | Dunne | 312 | 2.35 | 733.20 |

| 09-Feb-06 | Williams | 936 | 2.35 | 2199.60 |

| 10-Feb-06 | Williams | 644 | 2.35 | 1513.40 |

+-----------+--------------+--------------+------------+------------+

5 rows in set (0.00 sec)

10.

mysql> select distinct charter.charDate, customer.custLastName, (charter.charHoursWait\* 50.0) as Waitingchg, round((model.modChgMile\*charter.chardistance),2)as mileageChg,round((charter.charHoursWait\* 50.0)+(model.modChgMile \*charter.chardistance),2)as totalChg from model, charter, aircraft, customer where model.modCode = aircraft.modCode and aircraft.acnum = charter.acnum and charter.custCode = customer.custCode and charter.charDate >= '09-feb-06';

+-----------+--------------+------------+------------+----------+

| charDate | custLastName | Waitingchg | mileageChg | totalChg |

+-----------+--------------+------------+------------+----------+

| 09-Feb-06 | Brown | 0.00 | 4392.15 | 4392.15 |

| 10-Feb-06 | Orlando | 0.00 | 980.44 | 980.44 |

| 09-Feb-06 | Dunne | 0.00 | 733.20 | 733.20 |

| 09-Feb-06 | Williams | 105.00 | 2199.60 | 2304.60 |

| 10-Feb-06 | Williams | 225.00 | 1513.40 | 1738.40 |

+-----------+--------------+------------+------------+----------+

5 rows in set (0.00 sec)

11.

mysql> select distinct customer.custLastName, customer.custFirstName, customer.custBalance from customer where customer.custBalance > '0' order by customer.custLastName desc;

+--------------+---------------+-------------+

| custLastName | custFirstName | custBalance |

+--------------+---------------+-------------+

| Smith | Kathy | 896.54 |

| Smith | Olette | 453.98 |

| Orlando | Myron | 673.21 |

| Olowski | Paul | 1285.19 |

| O'Brian | Amy | 1014.56 |

+--------------+---------------+-------------+

5 rows in set (0.00 sec)

12.

mysql> Select round(avg(customer.custBalance),2) as "Average Balance", min(customer.custBalance) as "Minimum Balance", max(customer.custBalance) as "Maximum Balance" ,round(sum(customer.custBalance), 2) as "Total Unpaid Bills" From customer;

+-----------------+-----------------+-----------------+--------------------+

| Average Balance | Minimum Balance | Maximum Balance | Total Unpaid Bills |

+-----------------+-----------------+-----------------+--------------------+

| 432.35 | 0.00 | 1285.19 | 4323.48 |

+-----------------+-----------------+-----------------+--------------------+

1 row in set (0.00 sec)

13.

mysql> select distinct charter.acnum, count(charter.charTrip)as "Number of Trips", sum(charter.charDistance) as "Total Distance", round(avg(charter.charDistance),1) as "Average Distance", round(sum(charter.charHoursFlown),1) as "Total Hours", round(avg(charter.charHoursFlown),1) as "Average Hours" from charter group by charter.acnum;

+-------+-----------------+----------------+------------------+-------------+---------------+

| acnum | Number of Trips | Total Distance | Average Distance | Total Hours | Average Hours |

+-------+-----------------+----------------+------------------+-------------+---------------+

| 1484P | 4 | 1976 | 494.0 | 12.0 | 3.0 |

| 2289L | 4 | 5178 | 1294.5 | 24.1 | 6.0 |

| 2778V | 4 | 3090 | 772.5 | 15.8 | 4.0 |

| 4278Y | 6 | 5268 | 878.0 | 30.4 | 5.1 |

+-------+-----------------+----------------+------------------+-------------+---------------+

4 rows in set (0.00 sec)

14.

mysql> select charter.chartrip, charter.charDate, charter.acnum, model.modName, charter.charHoursFlown, employee.empLName, crew.crewJob from charter, aircraft, model, crew, employee where charter.acnum = aircraft.acnum and aircraft.modCode = model.ModCode and charter.charTrip = crew.CharTrip and crew.empNum = employee.empNum and crew.crewJob ='pilot' order by charter.chartrip;

+----------+-----------+-------+------------------+----------------+------------+---------+

| chartrip | charDate | acnum | modName | charHoursFlown | empLName | crewJob |

+----------+-----------+-------+------------------+----------------+------------+---------+

| 10001 | 05-Feb-08 | 2289L | KingAir | 5.1 | Lange | Pilot |

| 10002 | 05-Feb-08 | 2778V | Navajo Chieftain | 1.6 | Lewis | Pilot |

| 10003 | 05-Feb-08 | 4278Y | Navajo Chieftain | 7.8 | Williams | Pilot |

| 10004 | 06-Feb-08 | 1484P | Aztec | 2.9 | Duzak | Pilot |

| 10005 | 06-Feb-08 | 2289L | KingAir | 5.7 | Lewis | Pilot |

| 10006 | 06-Feb-08 | 4278Y | Navajo Chieftain | 2.6 | Travis | Pilot |

| 10007 | 06-Feb-08 | 2778V | Navajo Chieftain | 7.9 | Lange | Pilot |

| 10008 | 07-Feb-08 | 1484P | Aztec | 4.1 | Duzak | Pilot |

| 10009 | 07-Feb-08 | 2289L | KingAir | 6.6 | Williams | Pilot |

| 10010 | 07-Feb-08 | 4278Y | Navajo Chieftain | 6.2 | Wiesenbach | Pilot |

| 10011 | 07-Feb-08 | 1484P | Aztec | 1.9 | Lewis | Pilot |

| 10013 | 08-Feb-08 | 4278Y | Navajo Chieftain | 3.9 | Williams | Pilot |

| 10014 | 09-Feb-08 | 4278Y | Navajo Chieftain | 6.1 | Duzak | Pilot |

| 10015 | 09-Feb-08 | 2289L | KingAir | 6.7 | Lange | Pilot |

| 10016 | 09-Feb-08 | 2778V | Navajo Chieftain | 1.5 | Travis | Pilot |

| 10017 | 10-Feb-08 | 1484P | Aztec | 3.1 | Lewis | Pilot |

| 10018 | 10-Feb-08 | 4278Y | Navajo Chieftain | 3.8 | Williams | Pilot |

+----------+-----------+-------+------------------+----------------+------------+---------+

17 rows in set (0.00 sec)

15.

select DATEDIFF("2012",emploee.empDOB, getdate()) as "AGE"

from employee order by employee.empNum;