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CIS310-01

ASSIGNMENT 6

DUE 3/2/11

DESCRIPTION

This assignment demonstrates various queries run on an SQL database. The ERD for the database is represented in an ERD via SQL server 2008.

--1

SELECT CHAR\_TRIP, CHAR\_DATE, AC\_NUMBER, CHAR\_DESTINATION

FROM CHARTER

--2

SELECT CHAR\_DATE, AC\_NUMBER, CHAR\_DESTINATION, CHAR\_DISTANCE, CHAR\_HOURS\_FLOWN

FROM CHARTER

WHERE AC\_NUMBER = '2778V'

--3

CREATE VIEW AC2778V AS

SELECT CHAR\_DATE, AC\_NUMBER, CHAR\_DESTINATION, CHAR\_DISTANCE,CHAR\_HOURS\_FLOWN

FROM CHARTER

WHERE AC\_NUMBER = '2778V'

--4

SELECT CH.CHAR\_DATE, CH.AC\_NUMBER, CH.CHAR\_DESTINATION, C.CUS\_LNAME, C.CUS\_AREACODE, C.CUS\_PHONE

FROM CHARTER CH INNER JOIN CUSTOMER C ON CH.CUS\_CODE = C.CUS\_CODE

WHERE CH.AC\_NUMBER = '2778V'

--5

SELECT CH.CHAR\_DATE, CH.CHAR\_DESTINATION, A.AC\_NUMBER, M.MOD\_NAME, M.MOD\_CHG\_MILE

FROM INNER JOIN AIRCRAFT A ON CH.AC\_NUMBER = A.AC\_NUMBER

INNER JOIN MODEL M ON A.MOD\_CODE = M.MOD\_CODE

WHERE CH.CHAR\_DATE = '02/06/06'

--6

SELECT CH.CHAR\_DATE, CH.CHAR\_DESTINATION, A.AC\_NUMBER, M.MOD\_NAME, M.MOD\_CHG\_MILE, C.CUS\_LNAME

FROM CUSTOMER C INNER JOIN CHARTER CH ON C.CUS\_CODE = CH.CUS\_CODE

INNER JOIN AIRCRAFT A ON CH.AC\_NUMBER = A.AC\_NUMBER

INNER JOIN MODEL M ON A.MOD\_CODE = M.MOD\_CODE

WHERE CH.CHAR\_DATE >= '02/09/06'

--7

SELECT CH.CHAR\_DATE, CH.CHAR\_DESTINATION, A.AC\_NUMBER, M.MOD\_CHG\_MILE, CH.CHAR\_DISTANCE,E.EMP\_NUM, CR.CREW\_JOB, E.EMP\_LNAME

FROM EMPLOYEE E INNER JOIN CREW CR ON E.EMP\_NUM = CR.EMP\_NUM

INNER JOIN CHARTER CH ON CH.CHAR\_TRIP = CR.CHAR\_TRIP

INNER JOIN AIRCRAFT A ON CH.AC\_NUMBER = A.AC\_NUMBER

INNER JOIN MODEL M ON A.MOD\_CODE = M.MOD\_CODE

WHERE CH.CHAR\_DATE >= '02/09/06'

--8

SELECT CH.CHAR\_DATE, A.AC\_NUMBER, M.MOD\_NAME, CH.CHAR\_HOURS\_FLOWN, CH.CHAR\_FUEL\_GALLONS,

ROUND(CH.CHAR\_FUEL\_GALLONS/CH.CHAR\_HOURS\_FLOWN,2) AS [Gallons/Hour]

FROM CHARTER CH INNER JOIN AIRCRAFT A ON CH.AC\_NUMBER = A.AC\_NUMBER

INNER JOIN MODEL M ON A.MOD\_CODE = M.MOD\_CODE

WHERE CH.CHAR\_DATE >= '02/09/06'

--9

SELECT CH.CHAR\_DATE, C.CUS\_LNAME, CH.CHAR\_DISTANCE, M.MOD\_CHG\_MILE, ROUND((CH.CHAR\_DISTANCE\*M.MOD\_CHG\_MILE),2) AS [Mileage Charge]

FROM CUSTOMER C INNER JOIN CHARTER CH ON C.CUS\_CODE = CH.CUS\_CODE

INNER JOIN AIRCRAFT A ON CH.AC\_NUMBER = A.AC\_NUMBER

INNER JOIN MODEL M ON A.MOD\_CODE = M.MOD\_CODE

WHERE CH.CHAR\_DATE >= '02/09/06'

ORDER BY CH.CHAR\_DATE, C.CUS\_LNAME

--10

SELECT CH.CHAR\_DATE, C.CUS\_LNAME,

ROUND((CH.CHAR\_DISTANCE\*M.MOD\_CHG\_MILE),2) AS [Mileage Charge],

ROUND((CH.CHAR\_HOURS\_WAIT\*50),2) AS [Waiting Charge],

ROUND(((CH.CHAR\_DISTANCE\*M.MOD\_CHG\_MILE) +(CH.CHAR\_HOURS\_WAIT\*50)),2) AS [Total Charge]

FROM CUSTOMER C INNER JOIN CHARTER CH ON C.CUS\_CODE = CH.CUS\_CODE

INNER JOIN AIRCRAFT A ON CH.AC\_NUMBER = A.AC\_NUMBER

INNER JOIN MODEL M ON A.MOD\_CODE = M.MOD\_CODE

WHERE CH.CHAR\_DATE >= '02/09/06'

ORDER BY CH.CHAR\_DATE, C.CUS\_LNAME

--11

SELECT CUS\_LNAME, CUS\_FNAME, CUS\_INITIAL, CUS\_BALANCE

FROM CUSTOMER

WHERE CUS\_BALANCE > 0

ORDER BY CUS\_BALANCE DESC

--12

SELECT ROUND(AVG(CUS\_BALANCE),2) AS [Average Balance],

ROUND(MIN(CUS\_BALANCE),2) AS [Minimum Balance],

ROUND(MAX(CUS\_BALANCE),2) AS [Maximum Balance],

ROUND(SUM(CUS\_BALANCE),2) AS [Total Unpaid Bills]

FROM CUSTOMER

--13

SELECT AC\_NUMBER,

COUNT(CHAR\_TRIP) AS [Number of Trips],

SUM(CHAR\_DISTANCE) AS [Total Distance],

ROUND(AVG(CHAR\_DISTANCE),1) AS [Average Distance],

ROUND(SUM(CHAR\_HOURS\_FLOWN),1) AS [Total Hours], ROUND(AVG(CHAR\_HOURS\_FLOWN),1) AS [Average Hours]

FROM CHARTER

GROUP BY AC\_NUMBER

--14

SELECT CH.CHAR\_TRIP, CH.CHAR\_DATE, A.AC\_NUMBER, M.MOD\_NAME, CH.CHAR\_HOURS\_FLOWN, E.EMP\_LNAME, CR.CREW\_JOB

FROM EMPLOYEE E INNER JOIN CREW CR ON E.EMP\_NUM = CR.EMP\_NUM

INNER JOIN CHARTER CH ON CR.CHAR\_TRIP = CH.CHAR\_TRIP

INNER JOIN AIRCRAFT A ON CH.AC\_NUMBER = A.AC\_NUMBER

INNER JOIN MODEL M ON A.MOD\_CODE = M.MOD\_CODE

WHERE CH.CHAR\_TRIP NOT IN

(

SELECT C.CHAR\_TRIP

FROM CREW C

WHERE C.CREW\_JOB = 'Copilot'

)

--15

SELECT EMP\_NUM, EMP\_LNAME, EMP\_FNAME,

REPLACE(CONVERT(VARCHAR(9), EMP\_HIRE\_DATE, 6), ' ', '-') AS [EMP\_HIRE\_DATE],

REPLACE(CONVERT(VARCHAR(9), EMP\_DOB, 6), ' ', '-') AS [EMP\_DOB],

FLOOR(DATEDIFF(DD,EMP\_DOB, GETDATE())/365.25) AS [Age],

REPLACE(CONVERT(VARCHAR(9), GETDATE(), 6), ' ', '-') AS [Query Date]

FROM EMPLOYEE

