CS4350 Database Systems Quiz#3

Given the following two tables:

AvailableSlots = ( Date, Time) , where the Time assumes the values 8, 9, ..12, 13, 14….24.

EmployeesSchedule = ( EmployeeID, EmployeeName, Date, Time) which includes unavailable time slots for each employee.

Write a SQL statement that lists EmployeeID, EmployeeName , available Date , and Time.

Solution #1

SELECT ES. EmployeeID, ES. EmployeeName, A.Date, A.Time

FROM EmployeeSchedule ES, AvailableSlots A

WHERE ( A. Date, A.Time) Not IN

(SELECT ESS. Date, ESS.Time

FROM EmployeeSchedule ESS

WHERE ESS. EmployeeID= ES.EmployeeID) )

ORDER BY ES. EmployeeID, ES. EmployeeName, A.Date, A.Time;

Solution #2

SELECT ES. EmployeeID, ES. EmployeeName, A.Date, A.Time

FROM EmployeeSchedule ES, AvailableSlots A

WHERE (ES. EmployeeID, ES.EmployeeName, A. Date, A.Time) Not IN

(SELECT ESS.EmployeeID, ESS.EmployeeName, ESS. Date, ESS.Time

FROM EmployeeSchedule ESS

)

ORDER BY ES. EmployeeID, ES. EmployeeName, A.Date, A.Time;

Solution#3

(SELECT ES. EmployeeID, ES. EmployeeName, A.Date, A.Time

FROM EmployeeSchedule ES, AvailableSlots A)

EXCEPT

(SELECT ESS.EmployeeID, ESS.EmployeeName , ESS.Date, ESS.Time

FROM EmployeeSchedule ESS

}

ORDER BY ES. EmployeeID, ES. EmployeeName, A.Date, A, A.Time;

Solution#4

SELECT SELECT ES. EmployeeID, ES. EmployeeName, A.Date, A.Time

FROM EmployeeSchedule ES, AvailableSlots A

WHERE NOT EXIST ( SELECT \*

FROM EmployeeSchedule ESS

WHERE ESS.EmployeeID= ES.EmployeeID AND

ESS.EmployeeName= ES. EmployeeName AND

ESS.Date= A.Date AND ESS.Time= A.Time);