



pears.PersonAvailableforPlanIterate



Generated schema reference. Regenerate this page from the SQL unload; keep hand-maintained business notes in the narrative namespace.

Original SQL

```
COMMENT TO PRESERVE FORMAT ON PROCEDURE
"pears"."PersonAvailableforPlanIterate" IS
{CREATE FUNCTION PersonAvailableforPlanIterate

/* Application Maintained Function / Procedure - DO NOT EDIT*/

(IN sPersonid CHAR(20),IN dShiftDate DATE,IN tShiftFrom TIME,IN tShiftTo
TIME,IN iCheckExplicitlyAvailable SMALLINT,IN MovingShiftID CHAR(20))
RETURNS CHAR(1)
BEGIN
    DECLARE foundState CHAR(1);
    SET foundstate=NULL; // IF we RETURN NULL, we have found no explicit
unavailability OR availability
    IF spersonid IS NULL THEN
        RETURN NULL
    END IF;
    IF tshiftfrom < tshiffto THEN // Whole shift IN DAY
        SELECT FIRST state INTO foundstate FROM tempshift WHERE state NOT IN(
'A','C') AND personid = spersonid AND tempshiftid <> movingshiftid AND
shiftdate = dshiftdate AND timefrom < tshiffto AND
(effectivetimeto > tshiftfrom OR effectivetimeto <= timefrom);
        IF foundstate IS NULL THEN // CHECK FOR clashing night shifts starting
previous DAY
            SELECT FIRST state INTO foundstate FROM tempshift WHERE state NOT IN(
'A','C') AND personid = spersonid AND tempshiftid <> movingshiftid AND
shiftdate = dshiftdate-1 AND effectivetimeto <= timefrom AND effectivetimeto
> tshiftfrom
        END IF;
        IF foundstate IS NULL AND icheckexplicitlyavailable <> 0 THEN // CHECK
FOR explicit availability
            SELECT FIRST state INTO foundstate FROM tempshift WHERE state = 'A'
AND personid = spersonid AND shiftdate = dshiftdate AND
(timefrom IS NULL OR effectivetimeto IS NULL OR(timefrom <
dateadd(MINUTE,1,tshiftfrom) AND(effectivetimeto <= timefrom OR
effectivetimeto > dateadd(MINUTE,-1,tshiffto))));
```



```
IF foundstate IS NULL THEN // CHECK FOR availability starting the
previous DAY
    SELECT FIRST state INTO foundstate FROM tempshift WHERE state = 'A'
AND personid = spersonid AND shiftdate = dshiftdate-1 AND effectivetimeto <=
timefrom AND effectivetimeto > dateadd(MINUTE,-1,tshiftto)
END IF
END IF
ELSE // This IS a night shift going INTO NEXT DAY
    SELECT FIRST state INTO foundstate FROM tempshift WHERE state NOT IN(
'A','C') AND personid = spersonid AND tempshiftid <> movingshiftid AND
shiftdate = dshiftdate AND(effectivetimeto <= timefrom OR effectivetimeto >
tshiftfrom);
    IF foundstate IS NULL THEN // CHECK FOR clashing shifts starting the
previous DAY
        SELECT FIRST state INTO foundstate FROM tempshift WHERE state NOT IN(
'A','C') AND personid = spersonid AND tempshiftid <> movingshiftid AND
shiftdate = dshiftdate-1 AND effectivetimeto <= timefrom AND effectivetimeto
> tshiftfrom
        END IF;
        IF foundstate IS NULL THEN // CHECK FOR clashing shifts starting the
NEXT DAY
            SELECT FIRST state INTO foundstate FROM tempshift WHERE state NOT IN(
'A','C') AND personid = spersonid AND tempshiftid <> movingshiftid AND
shiftdate = dshiftdate+1 AND effectivetimeto IS NOT NULL AND timefrom <
tshiftto
            END IF;
            IF foundstate IS NULL AND icheckexplicitlyavailable <> 0 THEN // CHECK
FOR explicit availability
                SELECT FIRST state INTO foundstate FROM tempshift WHERE state = 'A'
AND personid = spersonid AND shiftdate = dshiftdate AND
                (timefrom IS NULL OR effectivetimeto IS NULL OR(timefrom <
dateadd(MINUTE,1,tshiftfrom) AND effectivetimeto <= timefrom AND
effectivetimeto > dateadd(MINUTE,-1,tshiftto)));
                IF foundstate IS NULL THEN // CHECK FOR 2 shifts OF availability, TO
AND FROM midnight
                    SELECT FIRST state INTO foundstate FROM tempshift WHERE state = 'A'
AND personid = spersonid AND shiftdate = dshiftdate AND
                    timefrom < dateadd(MINUTE,1,tshiftfrom) AND effectivetimeto <=
timefrom;
                    IF foundstate = 'A' THEN // Look FOR SECOND half
                        SET foundstate=NULL;
                        SELECT FIRST state INTO foundstate FROM tempshift WHERE state =
'A' AND personid = spersonid AND shiftdate = dshiftdate+1 AND
                        (effectivetimeto > dateadd(MINUTE,-1,tshiftto) OR
effectivetimeto <= timefrom) AND timefrom < '00:01'
                        END IF
                    END IF
                END IF
            END IF
```



```
END IF;  
RETURN foundstate  
END  
}
```

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