



pears.PersonAvailableforPlanIterate



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

Original SQL

```
CREATE FUNCTION "pears"."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" < "tshiftto" 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" < "tshiftto"  
      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,"tshiftto"))));  
        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 // This IS a night shift going INTO NEXT DAY
ELSE 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;
RETURN "foundstate"
```



END

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