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-- rendu TDM5

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-- EXERCICE 1
-- Q1
CREATE TABLE etapes(numero_etape SMALLINT PRIMARY KEY NOT
NULL,nom VARCHAR(128) NOT NULL, CHECK(numero_etape>=1));
insert into etapes values(1, 'Dunkerque');
insert into etapes values(2, 'Paris');
insert into etapes values(3, 'Lyon');
insert into etapes values(4, 'Marseille');

-- Q2
CREATE TABLE temps(dossard SMALLINT,etape SMALLINT,chrono
INTERVAL,id SERIAL PRIMARY KEY not null);

-- Q3
ALTER TABLE temps ADD FOREIGN KEY(etape) REFERENCES
etapes(numero_etape);
ALTER TABLE temps ADD FOREIGN KEY(dossard) REFERENCES
coureurs(dossard);

-- Q4
ALTER TABLE temps add CHECK (chrono<='06:00:00' AND
chrono>='00:00:00');
ALTER TABLE temps add CHECK (chrono<='6hours' AND
chrono>='0seconds');

-- Q5
INSERT INTO temps VALUES(1,1,'05:00:00');
INSERT INTO temps VALUES(17,3,'04:50:00');

-- Q6
-- 1
CREATE TABLE etapes2 AS SELECT * FROM etapes;
CREATE TABLE temps2 AS SELECT * FROM temps;

-- 2
-- ERREUR: erreur de syntaxe sur ou près de « * »
-- LINE 1: delete * from etapes
DELETE * FROM etapes
-- impossible à cause des clés étrangères.

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-- 3
TRUNCATE TABLE temps;
INSERT INTO temps VALUES(1,1,'04:00:00');
-- L'id ne retourne pas à 1 et suit la valeur qui était dans
la table.

-- 4
TRUNCATE TABLE temps;
ALTER SEQUENCE temps_id_seq RESTART;

-- 5
TRUNCATE TABLE etapes, temps;

-- 6
INSERT INTO etapes SELECT * FROM etapes2;
INSERT INTO temps SELECT * FROM temps2;

-- Q7
CREATE VIEW v1 AS
SELECT dossard, chrono AS chrono1, rank() over (ORDER BY
chrono) AS rang1 FROM etapes JOIN temps ON
etapes.numero_etape = temps.etape WHERE etape = 1 ORDER BY
chrono ;

CREATE VIEW v2 AS
SELECT dossard, chrono AS chrono2, rank() over (ORDER BY
chrono) AS rang2 FROM etapes JOIN temps ON
etapes.numero_etape = temps.etape WHERE etape = 2 ORDER BY
chrono ;

-- Q8
-- SELECT coureurs.dossard, nom, equipe, chrono AS chrono1,
rank() over (ORDER BY chrono) AS classement1 FROM coureurs
LEFT JOIN temps ON coureurs.dossard = temps.dossard WHERE
etape=1;
-- SELECT coureurs.dossard, nom, equipe, chrono AS chrono2,
rank() over (ORDER BY chrono) AS classement2 FROM coureurs
LEFT JOIN temps ON coureurs.dossard = temps.dossard WHERE
etape=2;

SELECT v1.dossard, chrono1, chrono2, rang1, rang2 FROM v1 join
v2 on dossard.v1=dossard.v2;

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-- Q9

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SELECT v1.dossard, chrono1, chrono2, chrono1+chrono2 AS  
chrono_total, rang1, rang2 FROM v1 join v2 on  
dossard.v1=dossard.v2;
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