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-- TASK 1.1
SELECT COUNT(*) AS "NUMBER OF PLAYERS" FROM ATHLETE2 WHERE CCODE = 'AUS';

-- TASK 1.2
SELECT SPORTID AS "SportID", COUNT(*) AS "Count" FROM ATHLETE3 WHERE CCODE = 'RUS' GROUP BY SPORTID;

-- TASK 1.3
CREATE TABLE "ATHLETE_FULL"
("ATHLETEID" NUMBER,
"FNAME" VARCHAR2(30 BYTE),
"SNAME" VARCHAR2(30 BYTE),
"BDATE" VARCHAR2(30 BYTE),
"CCODE" VARCHAR2(30 BYTE),
"SPORTID" NUMBER);

INSERT INTO "ATHLETE_FULL" SELECT * FROM ATHLETE1;
INSERT INTO "ATHLETE_FULL" SELECT * FROM ATHLETE2;
INSERT INTO "ATHLETE_FULL" SELECT * FROM ATHLETE3;

DESC "ATHLETE_FULL";

SELECT COUNT(*) FROM ATHLETE_FULL, COUNTRY WHERE ATHLETE_FULL.CCODE = COUNTRY.CCODE AND (CONTINENT = 'EU');

DROP TABLE ATHLETE_FULL;

-- TASK 2
-- JOB 1: FULL REPLICATION
BEGIN
UPDATE USER1_HF_FULL_S4556162.ATHLETE1_REPLICA1
SET CCODE = 'AUS'
WHERE ATHLETEID = 305;
END;
/

BEGIN
UPDATE USER2_HF_FULL_S4556162.ATHLETE1_REPLICA2
SET CCODE = 'AUS'
WHERE ATHLETEID = 305;
END;
/

BEGIN
UPDATE USER3_HF_FULL_S4556162.ATHLETE1_REPLICA3
SET CCODE = 'AUS'
WHERE ATHLETEID = 305;
END;
/

-- JOB 2: PARTIAL REPLICATION
BEGIN
UPDATE USER1_HF_PA_S4556162.ATHLETE1_REPLICA1
SET CCODE = 'AUS'
WHERE ATHLETEID = 305;
END;
/

BEGIN
UPDATE USER2_HF_PA_S4556162.ATHLETE1_REPLICA2
SET CCODE = 'AUS'
WHERE ATHLETEID = 305;
END;
/

-- JOB 3: NO REPLICATION
BEGIN
UPDATE USER1_HF_NO_S4556162.ATHLETE1_REPLICA1
SET CCODE = 'AUS'
WHERE ATHLETEID = 305;
END;
/

-- TASK 3
SELECT FNAME, SNAME, BDATE
FROM USER1_VF_S4556162.ATHLETE_V1, USER2_VF_S4556162.ATHLETE_V2
WHERE USER1_VF_S4556162.ATHLETE_V1.ATHLETEID = USER2_VF_S4556162.ATHLETE_V2.ATHLETEID
AND USER1_VF_S4556162.ATHLETE_V1.ATHLETEID >= 305
AND USER1_VF_S4556162.ATHLETE_V1.ATHLETEID <= 310
AND USER2_VF_S4556162.ATHLETE_V2.ATHLETEID >= 305
AND USER2_VF_S4556162.ATHLETE_V2.ATHLETEID <= 310;

-- TASK 4
-- SEMI-JOIN PROCESS:
-- STEP 1
SELECT DISTINCT ATHLETEID
FROM USER1_VF_S4556162.ATHLETE_V1 A;

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-- STEP 2
SELECT B.ATHLETEID, BDATE, CCODE, SPORTID
FROM USER2_VF_S4556162.ATHLETE_V2 B
WHERE B.ATHLETEID IN
(SELECT DISTINCT A.ATHLETEID
FROM USER1_VF_S4556162.ATHLETE_V1 A) AND B.CCODE = 'AUS';

-- STEP 3
SELECT A.ATHLETEID, A.FNAME, A.SNAME, C.BDATE, C.CCODE, C.SPORTID
FROM USER1_VF_S4556162.ATHLETE_V1 A,
(SELECT B.ATHLETEID, B.BDATE, B.CCODE, B.SPORTID
FROM USER2_VF_S4556162.ATHLETE_V2 B
WHERE B.ATHLETEID IN
(SELECT DISTINCT A.ATHLETEID
FROM USER1_VF_S4556162.ATHLETE_V1 A) AND B.CCODE = 'AUS') C
WHERE A.ATHLETEID = C.ATHLETEID;

-- INNER-JOIN PROCESS
-- STEP 1
SELECT B.ATHLETEID, B.BDATE, B.CCODE, B.SPORTID
FROM USER2_VF_S4556162.ATHLETE_V2 B
WHERE B.CCODE = 'AUS';

-- STEP 2
SELECT A.ATHLETEID, A.FNAME, A.SNAME, C.BDATE, C.CCODE, C.SPORTID
FROM USER1_VF_S4556162.ATHLETE_V1 A,
(SELECT B.ATHLETEID, B.BDATE, B.CCODE, B.SPORTID
FROM USER2_VF_S4556162.ATHLETE_V2 B
WHERE B.CCODE = 'AUS') C
WHERE A.ATHLETEID = C.ATHLETEID;

-- GLOBAL QUERY (given in Practical 1 Task Sheet)
select b.AthleteID, b.FName, b.SName, c.BDate, c.CCode, c.SportID
from USER1_VF_S4556162.ATHLETE_V1 b, USER2_VF_S4556162.ATHLETE_V2 c
where b.AthleteID= c.AthleteID and c.CCODE='AUS';

```