--DROP VIEW (MATERI)

DROP VIEW agenPlayer;

DROP VIEW agenManager;

--DROP VIEW (TUGAS)

DROP VIEW termuda;

DROP VIEW tertua;

DROP VIEW satu2nya;

DROP VIEW biggestStadium;

--DROP PROCEDURE & FUNCTION (MATERI)

DROP FUNCTION auto\_gen\_id\_player;

DROP FUNCTION check\_pembelian;

DROP PROCEDURE agentPM;

DROP PROCEDURE dataPlayer;

--DROP PROCEDURE & FUNCTION (TUGAS)

DROP FUNCTION cek\_umur\_player;

DROP FUNCTION auto\_gen\_person;

DROP PROCEDURE dataClub;

DROP PROCEDURE bigStadium;

--MATERI

--No. 1

CREATE OR REPLACE FUNCTION auto\_gen\_id\_player (

player VARCHAR2

) RETURN VARCHAR2

IS

dua NUMBER;

tiga NUMBER;

total NUMBER;

inc NUMBER;

gen VARCHAR2(6);

kode NUMBER;

BEGIN

kode:= 1;

IF INSTR(player, ' ', 1, 2) != 0 THEN

tiga:= INSTR(player, ' ', 1, 2) + 1;

gen:= SUBSTR(player, 1, 1);

gen:= gen || SUBSTR(player, tiga, 1);

ELSIF INSTR(player, ' ', 1, 1) != 0 THEN

dua:= INSTR(player, ' ', 1, 1) + 1;

gen:= SUBSTR(player, 1, 1);

gen:= gen || SUBSTR(player, dua, 1);

ELSE

gen:= SUBSTR(player, 1, 2);

END IF;

SELECT COUNT(p.id\_player) INTO total

FROM player p

WHERE SUBSTR(p.id\_player, 1, 2) = gen;

IF total > 0 THEN

SELECT MAX(SUBSTR(p.id\_player, -1, 1)) INTO inc

FROM player p

WHERE SUBSTR(p.id\_player, 1, 2) = gen;

kode:= kode + inc;

END IF;

gen:= gen || '00' || kode;

RETURN UPPER(gen);

END;

/

SHOW ERR;

DECLARE

x VARCHAR2(6);

BEGIN

x:= auto\_gen\_id\_player('Antoine Griezmann');

DBMS\_OUTPUT.PUT\_LINE(x);

END;

/

SHOW ERR;

--No. 2

CREATE OR REPLACE FUNCTION check\_pembelian (

club VARCHAR2

) RETURN VARCHAR2

IS

idx NUMBER;

total NUMBER;

outp VARCHAR2(1000);

BEGIN

outp:= 'club ' || club;

SELECT COUNT(ht.id\_transaksi) INTO total

FROM h\_transaksi ht, club c

WHERE ht.club\_baru= c.id\_club AND c.nama\_club= club;

IF total > 0 THEN

idx:= 0;

FOR i IN (SELECT p.nama\_player AS nama, TO\_CHAR(ht.tgl\_transfer, 'DD-MM-YYYY') AS tgl

FROM player p, club c, h\_transaksi ht, d\_transaksi dt

WHERE ht.id\_transaksi= dt.id\_transaksi AND

(c.id\_club= ht.club\_baru AND c.nama\_club= club) AND

p.id\_player= dt.id\_player

ORDER BY ht.tgl\_transfer ASC)

LOOP

IF idx = 0 THEN

outp:= outp || ' pernah membeli player ' || i.nama || ' pada tanggal ' || i.tgl;

ELSE

outp:= outp || ' dan pernah membeli player ' || i.nama || ' juga pada tanggal ' || i.tgl;

END IF;

idx:= idx+1;

END LOOP;

outp:= outp || ' jumlah transaksi yang pernah dilakukan adalah ' || total;

ELSE

outp:= outp || ' tidak pernah membeli pemain siapapun';

END IF;

RETURN UPPER(outp);

END;

/

SHOW ERR;

DECLARE

x VARCHAR2(1000);

BEGIN

x:= check\_pembelian('Manchester United');

DBMS\_OUTPUT.PUT\_LINE(x);

END;

/

SHOW ERR;

--No. 3

CREATE OR REPLACE VIEW agenPlayer AS

SELECT a.id\_agen AS id , COUNT(p.id\_player) AS ct

FROM agen a, player p

WHERE a.id\_agen= p.id\_agen

GROUP BY a.id\_agen;

CREATE OR REPLACE VIEW agenManager AS

SELECT a.id\_agen AS id, COUNT(m.id\_manager) AS ct

FROM agen a, manager m

WHERE a.id\_agen= m.id\_agen

GROUP BY a.id\_agen;

CREATE OR REPLACE PROCEDURE agentPM

IS

BEGIN

DBMS\_OUTPUT.PUT\_LINE('===================================================');

DBMS\_OUTPUT.PUT\_LINE('|AGEN |CLIENT PLAYER |CLIENT MANAGER|');

DBMS\_OUTPUT.PUT\_LINE('===================================================');

FOR i IN (SELECT a.nama\_agen AS nama, ap.ct AS cp, am.ct AS cm

FROM agen a, agenPlayer ap, agenManager am

WHERE a.id\_agen= ap.id AND a.id\_agen= am.id

ORDER BY SUBSTR(a.nama\_agen, 1, 1) ASC, ap.ct ASC, am.ct DESC)

LOOP

DBMS\_OUTPUT.PUT('|' || RPAD(i.nama, 19, ' '));

DBMS\_OUTPUT.PUT('|' || RPAD(i.cp, 14, ' '));

DBMS\_OUTPUT.PUT('|' || RPAD(i.cm, 14, ' '));

DBMS\_OUTPUT.PUT('|');

DBMS\_OUTPUT.PUT\_LINE('');

END LOOP;

DBMS\_OUTPUT.PUT\_LINE('===================================================');

END;

/

SHOW ERR;

CALL agentPM();

--No. 4

CREATE OR REPLACE PROCEDURE dataPlayer

IS

BEGIN

FOR i IN (SELECT p.nama\_player AS nama, TO\_CHAR(ht.tgl\_transfer, 'DD-MONYYYY') AS tgl, asal.nama\_club AS asal,

baru.nama\_club AS baru

FROM player p, club asal, club baru, h\_transaksi ht, d\_transaksi dt

WHERE ht.id\_transaksi= dt.id\_transaksi AND

(asal.id\_club= ht.club\_asal AND baru.id\_club= ht.club\_baru) AND

p.id\_player= dt.id\_player

ORDER BY TO\_CHAR(ht.tgl\_transfer, 'DD') ASC, TO\_CHAR(ht.tgl\_transfer, 'MON') ASC,

TO\_CHAR(ht.tgl\_transfer, 'YYYY') ASC, p.nama\_player ASC)

LOOP

DBMS\_OUTPUT.PUT\_LINE('=======================================');

DBMS\_OUTPUT.PUT\_LINE('| INFO TRANSFER |');

DBMS\_OUTPUT.PUT\_LINE('=======================================');

DBMS\_OUTPUT.PUT\_LINE('|NAMA PLAYER :' || LPAD(i.nama, 19, ' ') || '|');

DBMS\_OUTPUT.PUT\_LINE('|TANGGAL TRANSFER :' || LPAD(i.tgl, 19, ' ') || '|');

DBMS\_OUTPUT.PUT\_LINE('|CLUB ASAL :' || LPAD(i.asal, 19, ' ') || '|');

DBMS\_OUTPUT.PUT\_LINE('|CLUB BARU :' || LPAD(i.baru, 19, ' ') || '|');

DBMS\_OUTPUT.PUT\_LINE('=======================================');

END LOOP;

END;

/

SHOW ERR;

CALL dataPlayer();

--TUGAS

--No. 2

CREATE OR REPLACE VIEW termuda AS

SELECT p.id\_club AS id, MAX(p.dob\_player) AS dob

FROM player p

HAVING COUNT(p.id\_player) > 1

GROUP BY p.id\_club;

CREATE OR REPLACE VIEW tertua AS

SELECT p.id\_club AS id, MIN(p.dob\_player) AS dob

FROM player p

HAVING COUNT(p.id\_player) > 1

GROUP BY p.id\_club;

CREATE OR REPLACE VIEW satu2nya AS

SELECT p.id\_club AS id

FROM player p

HAVING COUNT(p.id\_player) = 1

GROUP BY p.id\_club;

CREATE OR REPLACE FUNCTION cek\_umur\_player (

player VARCHAR2

) RETURN VARCHAR2

IS

cek\_tertua NUMBER;

cek\_termuda NUMBER;

cek\_satu2nya NUMBER;

club VARCHAR2(100);

outp VARCHAR2(100);

BEGIN

SELECT COUNT(p.nama\_player) INTO cek\_termuda

FROM player p, club c, termuda tm

WHERE p.nama\_player= player AND

(p.id\_club= c.id\_club AND tm.id= c.id\_club) AND p.dob\_player= tm.dob;

SELECT COUNT(p.nama\_player) INTO cek\_tertua

FROM player p, club c, tertua tt

WHERE p.nama\_player= player AND

(p.id\_club= c.id\_club AND tt.id= c.id\_club) AND p.dob\_player= tt.dob;

SELECT COUNT(p.nama\_player) INTO cek\_satu2nya

FROM player p, club c, satu2nya st

WHERE p.nama\_player= player AND (p.id\_club= c.id\_club AND st.id= c.id\_club);

IF cek\_termuda > 0 THEN

SELECT c.nama\_club INTO club

FROM player p, club c, termuda tm

WHERE p.nama\_player= player AND

(p.id\_club= c.id\_club AND tm.id= c.id\_club) AND p.dob\_player= tm.dob;

outp:= player || ' adalah pemain termuda di club ' || club || '.';

ELSIF cek\_tertua > 0 THEN

SELECT c.nama\_club INTO club

FROM player p, club c, tertua tt

WHERE p.nama\_player= player AND

(p.id\_club= c.id\_club AND tt.id= c.id\_club) AND p.dob\_player= tt.dob;

outp:= player || ' adalah pemain tertua di club ' || club || '.';

ELSIF cek\_satu2nya > 0 THEN

SELECT c.nama\_club INTO club

FROM player p, club c, satu2nya st

WHERE p.nama\_player= player AND (p.id\_club= c.id\_club AND st.id= c.id\_club);

outp:= player || ' adalah satu-satunya pemain yang terdaftar pada ' || club || '.';

ELSE

SELECT c.nama\_club INTO club

FROM player p, club c

WHERE p.nama\_player= player AND p.id\_club= c.id\_club;

outp:= player || ' adalah pemain biasa di club ' || club || '.';

END IF;

RETURN UPPER(outp);

END;

/

SHOW ERR;

DECLARE

x VARCHAR2(100);

BEGIN

x:= cek\_umur\_player('Javier Pastore');

DBMS\_OUTPUT.PUT\_LINE(x);

END;

/

SHOW ERR;

--No. 3

CREATE OR REPLACE FUNCTION auto\_gen\_person (

name VARCHAR2,

role VARCHAR2

) RETURN VARCHAR2

IS

dua NUMBER;

tiga NUMBER;

total NUMBER;

inc NUMBER;

gen VARCHAR2(6);

kode NUMBER;

BEGIN

kode:= 1;

IF INSTR(name, ' ', 1, 2) != 0 THEN

tiga:= INSTR(name, ' ', 1, 2) + 1;

gen:= gen ||SUBSTR(name, 1, 1);

gen:= gen || SUBSTR(name, tiga, 1);

ELSIF INSTR(name, ' ', 1, 1) != 0 THEN

dua:= INSTR(name, ' ', 1, 1) + 1;

gen:= gen || SUBSTR(name, 1, 1);

gen:= gen || SUBSTR(name, dua, 1);

ELSE

gen:= gen || SUBSTR(name, 1, 2);

END IF;

IF role = 'Player' THEN

SELECT COUNT(p.id\_player) INTO total

FROM player p

WHERE SUBSTR(p.id\_player, 1, 2) = gen;

IF total > 0 THEN

SELECT MAX(SUBSTR(p.id\_player, -1, 1)) INTO inc

FROM player p

WHERE SUBSTR(p.id\_player, 1, 2) = gen;

kode:= kode + inc;

END IF;

gen:= 'P' || gen;

ELSIF role = 'Manager' THEN

gen:= 'M' || gen;

SELECT COUNT(m.id\_manager) INTO total

FROM manager m

WHERE SUBSTR(m.id\_manager, 1, 3) = gen;

IF total > 0 THEN

SELECT MAX(SUBSTR(m.id\_manager, -2, 2)) INTO inc

FROM manager m

WHERE SUBSTR(m.id\_manager, 1, 3) = gen;

kode:= kode + inc;

END IF;

END IF;

IF kode < 10 THEN

gen:= gen || '00' || kode;

ELSIF kode >= 10 AND kode < 100 THEN

gen:= gen || '0' || kode;

END IF;

RETURN UPPER(gen);

END;

/

SHOW ERR;

DECLARE

x VARCHAR2(6);

BEGIN

x:= auto\_gen\_person('Antoine Griezmann', 'Player');

DBMS\_OUTPUT.PUT\_LINE(x);

END;

/

SHOW ERR;

--No. 4

CREATE OR REPLACE PROCEDURE dataClub

IS

BEGIN

FOR i IN (SELECT c.nama\_club AS nama, TO\_CHAR(c.tahun\_berdiri, 'YYYY') AS thn,

l.nama\_liga AS liga, m.nama\_manager AS mng, s.nama\_stadium AS stadium

FROM club c, club\_manager cm, manager m, stadium s, liga l

WHERE c.id\_club= cm.id\_club AND m.id\_manager= cm.id\_manager AND

c.id\_club= s.id\_club AND c.id\_liga= l.id\_liga

ORDER BY c.nama\_club ASC)

LOOP

DBMS\_OUTPUT.PUT\_LINE('#######################################');

DBMS\_OUTPUT.PUT\_LINE('| INFO CLUB |');

DBMS\_OUTPUT.PUT\_LINE('#######################################');

DBMS\_OUTPUT.PUT\_LINE('|NAMA CLUB :' || LPAD(i.nama || '|', 20, ' '));

DBMS\_OUTPUT.PUT\_LINE('|TAHUN BERDIRI :' || LPAD(i.thn || '|', 20, ' '));

DBMS\_OUTPUT.PUT\_LINE('|LIGA :' || LPAD(i.liga || '|', 20, ' '));

DBMS\_OUTPUT.PUT\_LINE('|MANAGER CLUB :' || LPAD(i.mng || '|', 20, ' '));

DBMS\_OUTPUT.PUT\_LINE('|STADIUM :' || LPAD(i.stadium || '|', 20, ' '));

DBMS\_OUTPUT.PUT\_LINE('#######################################');

END LOOP;

END;

/

SHOW ERR;

CALL dataClub();

--No. 5

CREATE OR REPLACE VIEW biggestStadium AS

SELECT s.id\_negara AS id, MAX(s.kapasitas) AS kapasitas

FROM stadium s

GROUP BY s.id\_negara;

CREATE OR REPLACE PROCEDURE bigStadium

IS

BEGIN

DBMS\_OUTPUT.PUT\_LINE('+==========================================================+');

DBMS\_OUTPUT.PUT\_LINE('|AGEN |STADIUM |KAPASITAS |');

DBMS\_OUTPUT.PUT\_LINE('+----------------------------------------------------------+');

FOR i IN (SELECT n.nama\_negara AS n\_nama, s.nama\_stadium AS s\_nama, s.kapasitas || ' KURSI' AS kapasitas

FROM stadium s, negara n, biggestStadium bs

WHERE s.id\_negara= bs.id AND s.id\_negara= n.id\_negara AND s.kapasitas= bs.kapasitas

ORDER BY SUBSTR(s.nama\_stadium, 2, 1) ASC, s.kapasitas DESC)

LOOP

DBMS\_OUTPUT.PUT('|' || RPAD(i.n\_nama, 19, ' '));

DBMS\_OUTPUT.PUT('|' || RPAD(i.s\_nama, 19, ' '));

DBMS\_OUTPUT.PUT('|' || RPAD(i.kapasitas, 18, ' ') || '|');

DBMS\_OUTPUT.PUT\_LINE('');

END LOOP;

DBMS\_OUTPUT.PUT\_LINE('+==========================================================+');

END;

/

SHOW ERR;

CALL bigStadium();