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UNIVERSITI TEKNIKAL MALAYSIA MELAKA

DITP2313: DATABASE PROGRAMMING

PROJECT GROUP 2

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1.0 Introduction

Procedural Language/Structured Query Language, or PL/SQL, is a major player in database administration and information systems. It is a strong tool that may be used to create reliable and effective applications. We investigate the lives and achievements of two notable individuals, Tan Sri Mohamed Nazir Tun Abdul and Tan Sri Robert Kuok Hock Nien, using PL/SQL to extract and arrange important data regarding their educational backgrounds, honors, accomplishments, publications, contributions, associations, and titles in the workplace.

Tan Sri Mohamed Nazir Tun Abdul, a prominent figure in the business and finance sector, has left an indelible mark on the corporate landscape. Our PL/SQL investigation seeks to uncover details about his educational journey, accolades received, participation in various activities, publications, significant contributions to society, and the organizations he has been associated with, along with his professional title.

In a similar vein**, Tan Sri Robert Kuok Hock Nien**, a business magnate in the maritime and agribusiness sectors, is well known for his aptitude for entrepreneurship. We intend to carefully gather data using PL/SQL on his academic accomplishments, honours and awards, participation in various activities, published works, notable contributions, organizational roles, and professional titles.

Advantages that we learn in grouping work is **Diverse Skills** which is each team member brought unique skills to the table, contributing to a well-rounded approach in tackling the challenges posed by the code battle. Not only that, we more efficient **Division of Tasks** ,we can assigning specific roles based on individual expertise allowed us to streamline the workflow, ensuring optimal efficiency in handling different aspects of the project.

In conclusion, our experience in the code battle underscored the importance of teamwork in harnessing the full potential of PL/SQL for comprehensive data analysis and presentation. This collaborative effort not only showcased the power of this procedural language but also highlighted the advantages of pooling diverse talents towards a common goal.

1.1 Experience in Code Battle Teamwork

In a collaborative endeavor focusing on PL/SQL within a code battle scenario, our team worked seamlessly to extract, organize, and present data about Tansri Mohamed Nazir Tun Abdul and Tan Sri Robert Kuok Hock Nien. The synergy of our skills was evident as we navigated through databases, crafted PL/SQL queries, and conducted a thorough search for information.

2.0 Scope

a) Figure
   - Tan Sri Mohamed Nazir Tun Abdul
   - Tan Sri Robert Kuok Hock Nien

b) Information about the Tan Sri

   i)   Tan Sri Mohamed Nazir Tun Abdul

   Background:

   Well-known person in the finance and commercial industries.

   Contributions:

   Made a lasting impression on the corporate scene.

   PL/SQL Examine Objectives:
   - Learn more about his academic background.
   - Examine the honors you've been given.
   - Analyze involvement in different activities.
   - Examine publications.
   - Examine noteworthy societal accomplishments.
   - Examine the associations he has been a part of.
   - Recognize his title in the workplace.

ii)   Tan Sri Robert Kuok Hock Nien

Background:

An agribusiness and maritime business magnate.

Contributions:

renowned for being an entrepreneur.

PL/SQL Examine Objectives:

- Compile information about his scholastic achievements.

- Examine awards and honors.

- Examine taking part in different activities.

- Look up published works.

- Analyze noteworthy input.

- Recognize the positions inside a company.

- Examine titles that are professional.

c) Specific Requirements of Project

Using PL/SQL:

Utilize PL/SQL for data extraction and analysis.

Data Searching:

Look up as much information as possible about both public figures.

Cooperative teamwork:

Utilize a variety of talents while working cooperatively as a team.

Effective Task Distribution:

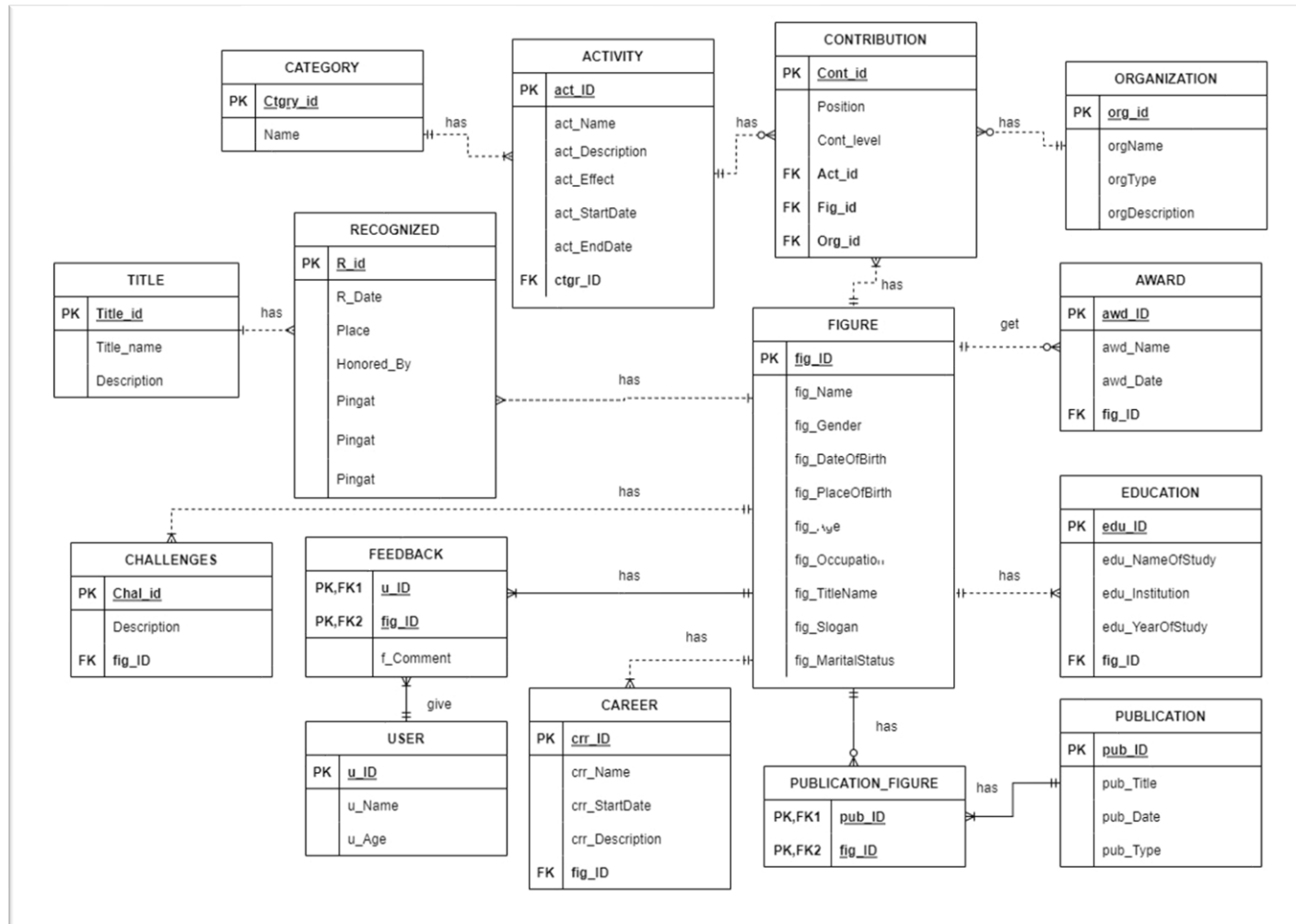For the best workflow, assign distinct jobs depending on individual knowledge.

Data Display:

Give the gathered data a thorough, well-organized presentation.

Scenario of Code Battle:

The project is structured around a code battle scenario, which highlights the importance of effective teamwork and using PL/SQL skills to overcome obstacles.

3.0 Entity Relationship Diagram

4.0 Data Definition Language (DDL)

FIGURE

```sql
CREATE TABLE FIGURE (

    FIG_ID VARCHAR2(50) PRIMARY KEY,

FIG_NAME VARCHAR2(255),

FIG_GENDER VARCHAR2(50),

FIG_DATEOFBIRTH VARCHAR2(50),

FIG_PLACEOFBIRTH VARCHAR2(50),

FIG_AGE NUMBER,

FIG_OCCUPATION VARCHAR2(255),

FIG_TITLENAME VARCHAR2(255),

FIG_SLOGAN VARCHAR2(255),

FIG_MARITALSTATUS VARCHAR2(30)

) ;
```

EDUCATION

```sql
CREATE TABLE EDUCATION (

    EDU_ID VARCHAR2(20) NOT NULL PRIMARY KEY ,

EDU_NAMEOFSTUDY VARCHAR2(255),

EDU_INSTITUTION VARCHAR2(255),

EDU_YEAROFSTUDY VARCHAR2(50),

FIG_ID VARCHAR2(50),

CONSTRAINT fk_fig_id FOREIGN KEY (fig_ID) REFERENCES
FIGURE(fig_ID)

);
```

AWARD

```
CREATE TABLE AWARD (

   AWD_ID VARCHAR2(50) PRIMARY KEY,

AWD_NAME VARCHAR2(255),

AWD_DATE VARCHAR2(50),

FIG_ID VARCHAR2(50),

SOURCE VARCHAR2(4000),

   CONSTRAINT fk_fig_id_award FOREIGN KEY (fig_ID) REFERENCES
figure(fig_ID)

) ;
```

CAREER

```
CREATE TABLE CAREER (

   CRR_ID VARCHAR2(50) PRIMARY KEY,

CRR_NAME VARCHAR2(255),

CRR_STARTDATE VARCHAR2(50),

CRR_DESCRIPTION VARCHAR2(4000),

FIG_ID VARCHAR2(50),

   CONSTRAINT fk_fig_id_career FOREIGN KEY (fig_ID) REFERENCES
FIGURE(fig_ID)

);
```

USER

```
CREATE TABLE USER (

   U_ID VARCHAR2(50) PRIMARY KEY,

U_NAME VARCHAR2(255),

U_AGE NUMBER

);
```

FEEDBACK

```
CREATE TABLE FEEDBACK (

   U_ID VARCHAR2(50),

FIG_ID VARCHAR2(50),

F_COMMENT VARCHAR2(4000),

   CONSTRAINT pk_FEEDBACK PRIMARY KEY (u_ID, fig_ID),

   CONSTRAINT fk_u_ID_feedback FOREIGN KEY (u_ID) REFERENCES
USERS(u_ID),

   CONSTRAINT fk_fig_ID_feedback FOREIGN KEY (fig_ID) REFERENCES
FIGURE(fig_ID)

);
```

PUBLICATION

```
CREATE TABLE PUBLICATION (

   PUB_ID VARCHAR2(50) PRIMARY KEY,

PUB_TITLE VARCHAR2(255),

PUB_DATE VARCHAR2(50),

PUB_TYPE VARCHAR2(50)

);
```

RECOGNIZED

```
CREATE TABLE RECOGNIZED(

   R_ID NUMBER PRIMARY KEY,

TITLE_ID NUMBER,

R_DATE VARCHAR2(50),

PLACE VARCHAR2(255),

HONORED_BY VARCHAR2(255),

PINGAT VARCHAR2(255),

FIG_ID VARCHAR2(50),

   CONSTRAINT fk_Title_id_R FOREIGN KEY (Title_id) REFERENCES
TITLE(Title_id),

   CONSTRAINT fk_Fig_id_R FOREIGN KEY (Fig_id) REFERENCES
FIGURE(Fig_id)
);
```

TITLE

```
CREATE TABLE TITLE (

   TITLE_ID NUMBER PRIMARY KEY,

TITLE_NAME VARCHAR2(255),

DESCRIPTION VARCHAR2(4000)
);
```

PUBLICATION_FIGURE

```
CREATE TABLE PUBLICATION_FIGURE (

   PUB_ID VARCHAR2(50),

FIG_ID VARCHAR2(50),

   CONSTRAINT fk_pub_ID_fig FOREIGN KEY (pub_ID) REFERENCES
PUBLICATION(pub_ID),

   CONSTRAINT fk_fig_ID_pub FOREIGN KEY (fig_ID) REFERENCES
FIGURE(fig_ID),
```

```
    CONSTRAINT pk_pub_fig PRIMARY KEY (pub_ID, fig_ID)
) ;
```

CATEGORY

```
CREATE TABLE CATEGORY(
   CTGRY_ID VARCHAR2(50)  PRIMARY KEY,
NAME VARCHAR2(100)
);
```

CHALLENGES

```
CREATE TABLE CHALLENGES (
   CHAL_ID NUMBER PRIMARY KEY,
DESCRIPTION VARCHAR2(4000),
FIG_ID VARCHAR2(50),
SOURCE VARCHAR2(255),
   CONSTRAINT fk_Fig_ID_chal FOREIGN KEY (Fig_id) REFERENCES
FIGURE(Fig_ID)
);
```

ORGANIZATION

```
CREATE TABLE ORGANIZATION (
   ORGID NUMBER PRIMARY KEY,
ORGNAME VARCHAR2(255),
ORGTYPE VARCHAR2(255),
ORGDESCRIPTION VARCHAR2(4000)
);
```

CONTRIBUTIONS

```
CREATE TABLE CONTRIBUTIONS (

   CONT_ID VARCHAR2(50),

ACT_ID VARCHAR2(50),

FIG_ID VARCHAR2(50),

POSITION_ VARCHAR2(255),

ORG_ID VARCHAR2(50),

CON_LEVEL VARCHAR2(50),

   CONSTRAINT fk_act_ID_con FOREIGN KEY (act_ID) REFERENCES
ACTIVITY(act_ID),

   CONSTRAINT fk_Fig_ID_con FOREIGN KEY (Fig_ID) REFERENCES
FIGURE(Fig_ID),

   CONSTRAINT fk_orgID_con FOREIGN KEY (orgID) REFERENCES
ORGANIZATION(orgID)

) ;
```

ACTIVITY

```
CREATE TABLE ACTIVITY (

   ACT_ID VARCHAR2(50),

ACT_NAME VARCHAR2(255),

ACT_DESCRIPTION VARCHAR2(4000),

ACT_EFFECT VARCHAR2(4000),

ACT_STARTDATE VARCHAR2(50),

ACT_ENDDATE VARCHAR2(50),

CTGRY_ID VARCHAR2(50),

   CONSTRAINT fk_ctgry_ID FOREIGN KEY (Ctgry_id) REFERENCES
CATEGORY(Ctgry_id)

) ;
```

DROP TABLE

```
DROP TABLE FIGURE;--15

DROP TABLE EDUCATION;--11

DROP TABLE AWARD;--10

DROP TABLE CAREER;--9

DROP TABLE USERS;--8

DROP TABLE FEEDBACK;--7

DROP TABLE PUBLICATION;--6

DROP TABLE RECOGNITION;--5

DROP TABLE TITLE;--12

DROP TABLE PUBLICATION_FIGURE;--4

DROP TABLE CATEGORY;--14

DROP TABLE CHALLENGES;--3

DROP TABLE ORGANIZATION;--2

DROP TABLE CONTRIBUTIONS;--1

DROP TABLE ACTIVITY;--13
```

5.0 PL/SQL Code

1. When did the figure receive the title of Tan Sri?

```
CREATE OR REPLACE PROCEDURE getReceivedTanSri(v_fig_id IN FIGURE.FIG_ID%TYPE)
IS
CURSOR cur_rec (p_fig_id FIGURE.FIG_ID%TYPE) IS
   SELECT F.FIG_NAME , T.TITLE_NAME , R.R_DATE
   FROM RECOGNIZED R
   JOIN TITLE T
   ON R.TITLE_ID = T.TITLE_ID
   JOIN FIGURE F
   ON R.FIG_ID = F.FIG_ID
   WHERE R.FIG_ID = p_fig_id;
   v_figure_rec cur_rec%ROWTYPE;
BEGIN
   OPEN cur_rec(v_fig_id);


     LOOP
       FETCH cur_rec INTO v_figure_rec;
       IF cur_rec%ROWCOUNT <=0
       THEN
          DBMS_OUTPUT.PUT_LINE('No Data Found');
       END IF;
       EXIT WHEN cur_rec%NOTFOUND;
        DBMS_OUTPUT.PUT_LINE(v_figure_rec.FIG_NAME||' received the Title ' ||
v_figure_rec.TITLE_NAME ||' on '|| v_figure_rec.R_DATE || '.' );
     END LOOP;
   CLOSE  cur_rec;
EXCEPTION
 WHEN INVALID_CURSOR THEN
```

```
    DBMS_OUTPUT.PUT_LINE('Cursor is facing problem !');

  WHEN NO_DATA_FOUND THEN

    -- Handle the case when no data is found

    DBMS_OUTPUT.PUT_LINE('No Data Found');

  WHEN OTHERS THEN

    -- Handle other exceptions

    DBMS_OUTPUT.PUT_LINE('Error, Please try again !');

END getReceivedTanSri;


BEGIN

getReceivedTanSri('F06');

END;
```

RESULT :


```
Results    Explain    Describe    Saved SQL    History

Robert Kuok Hock Nien received the Title Tan Sri on 2018.

Statement processed.

0.04 seconds
```

2. List the number of books and articles contributed by each figure

```
CREATE OR REPLACE PROCEDURE getFigurePub

IS

CURSOR cur_pub

IS

SELECT F.FIG_NAME, COUNT(PF.PUB_ID) totals

FROM PUBLICATION_FIGURE PF

JOIN FIGURE F

ON PF.FIG_ID = F.FIG_ID
```

```
GROUP BY F.FIG_NAME;

v_pub cur_pub%ROWTYPE;

BEGIN

   OPEN cur_pub;

   LOOP

   FETCH cur_pub INTO v_pub;

   IF cur_pub%ROWCOUNT <=0

      THEN

      DBMS_OUTPUT.PUT_LINE('No Data Found');

      END IF;

   EXIT WHEN cur_pub%NOTFOUND;

      DBMS_OUTPUT.PUT_LINE('The total number of publications made by
'||v_pub.FIG_NAME||' is ' || v_pub.totals || ' .');

   END LOOP;

   CLOSE cur_pub;

EXCEPTION

 WHEN INVALID_CURSOR THEN

   DBMS_OUTPUT.PUT_LINE('Cursor is facing problem !');

 WHEN NO_DATA_FOUND THEN

   -- Handle the case when no data is found

   DBMS_OUTPUT.PUT_LINE('No Data Found');

 WHEN OTHERS THEN

   -- Handle other exceptions

   DBMS_OUTPUT.PUT_LINE('Error, Please try again !');

END getFigurePub;



BEGIN

getFigurePub;

END;
```

RESULT :

3. Where did the figure receive Tan Sri?

```
CREATE OR REPLACE PROCEDURE getReceiveTitlePlace(v_fig_id IN FIGURE.FIG_ID%TYPE)

IS

CURSOR cur_rec (p_fig_id FIGURE.FIG_ID%TYPE)

IS

  SELECT F.FIG_ID, F.FIG_NAME , T.TITLE_NAME , R.PLACE

  FROM RECOGNIZED R

  JOIN TITLE T

  ON R.TITLE_ID = T.TITLE_ID

  JOIN FIGURE F

  ON R.FIG_ID = F.FIG_ID

  WHERE TITLE_NAME = 'Tan Sri'

  AND F.FIG_ID = p_fig_id ;

  v_figure_rec cur_rec%ROWTYPE;

BEGIN

  OPEN cur_rec(v_fig_id);

    LOOP

      FETCH cur_rec INTO v_figure_rec;

      IF cur_rec%ROWCOUNT <=0

      THEN

        DBMS_OUTPUT.PUT_LINE('No Data Found');

      END IF;

      EXIT WHEN cur_rec%NOTFOUND;
```

```
      DBMS_OUTPUT.PUT_LINE(v_figure_rec.FIG_NAME  ||' received the title '  ||
v_figure_rec.TITLE_NAME ||' at '|| v_figure_rec.PLACE || '.' );

    END LOOP;

  CLOSE  cur_rec;

EXCEPTION

 WHEN INVALID_CURSOR THEN

  DBMS_OUTPUT.PUT_LINE('Cursor is facing problem !');

 WHEN NO_DATA_FOUND THEN

   -- Handle the case when no data is found

  DBMS_OUTPUT.PUT_LINE('No Data Found');

 WHEN OTHERS THEN

   -- Handle other exceptions

  DBMS_OUTPUT.PUT_LINE('Error, Please try again !');

END getReceiveTitlePlace;



BEGIN

getReceiveTitlePlace('F04');

END;
```

RESULT :


```
Results    Explain    Describe    Saved SQL    History

Jeffrey Cheah Fook Ling received the title Tan Sri at Istana Negara.

Statement processed.

0.01 seconds
```

4. What category did that figure contribute to?

```
CREATE OR REPLACE PROCEDURE getCategory(v_fig_id IN FIGURE.FIG_ID%TYPE)

IS
```

```
v_count Number :=0;

BEGIN

  FOR v_fig_name IN (SELECT FIG_NAME FROM FIGURE WHERE FIG_ID = v_fig_id)

  LOOP

    DBMS_output.put_line('The   category   that   '||   v_fig_name.FIG_NAME   ||'
contributed is :');

  END LOOP;

  FOR v_fig_rec IN (

        SELECT F.FIG_ID ,F.FIG_NAME,CAT.NAME

        FROM CONTRIBUTIONS CS

        JOIN FIGURE F

        ON CS.FIG_ID = F.FIG_ID

        JOIN ACTIVITY ACT

        ON CS.ACT_ID = ACT.ACT_ID

        JOIN CATEGORY CAT

        ON ACT.CTGRY_ID = CAT.CTGRY_ID

        WHERE F.FIG_ID = v_fig_id

    )

  LOOP

    v_count:=v_count+1;

    DBMS_output.put_line(v_count||')'||v_fig_rec.NAME || '.');

  END LOOP;


EXCEPTION

 WHEN NO_DATA_FOUND THEN

   -- Handle the case when no data is found

   DBMS_OUTPUT.PUT_LINE('No Data Found');

 WHEN OTHERS THEN

   -- Handle other exceptions

   DBMS_OUTPUT.PUT_LINE('Error, Please try again !');

END getCategory;
```

```
BEGIN

getCategory('F02');

END;
```

RESULT :

```
The category that Robert Kuok Hock Nien contributed is :
1) Bussinessman.

Statement processed.


0.07 seconds
```

5. What was the award the figure received?

```
CREATE OR REPLACE PROCEDURE getAward(v_fig_id IN FIGURE.FIG_ID%TYPE)

IS

--Count Variable

v_count NUMBER :=0;

CURSOR cur_awd IS

SELECT F.FIG_NAME,AWD.AWD_NAME

FROM AWARD AWD

JOIN FIGURE F

ON AWD.FIG_ID = F.FIG_ID

WHERE AWD.FIG_ID = v_fig_id;

BEGIN

   FOR v_fig_name IN (SELECT FIG_NAME FROM FIGURE WHERE FIG_ID = v_fig_id)

   LOOP

     DBMS_OUTPUT.PUT_LINE('The award that '||v_fig_name.FIG_NAME||' received
is : ');

   END LOOP;
```

```
      FOR v_fig_rec IN cur_awd LOOP

         v_count := v_count + 1;

         DBMS_OUTPUT.PUT_LINE( v_count ||')' || v_fig_rec.AWD_NAME );

      END LOOP;

EXCEPTION

 WHEN NO_DATA_FOUND THEN

   -- Handle the case when no data is found

   DBMS_OUTPUT.PUT_LINE('No Data Found');

 WHEN OTHERS THEN

   -- Handle other exceptions

   DBMS_OUTPUT.PUT_LINE('Error, Please try again !');

END getAward;



BEGIN

getAward('F02');

END;
```

RESULT


```
Results    Explain    Describe    Saved SQL    History

The award that Robert Kuok Hock Nien received is :
1) Sugar King of Asia
2) The Richest Man

Statement processed.
```

6. List of the companies that the figure has managed.

```
CREATE OR REPLACE PROCEDURE getOrganization(v_fig_id IN FIGURE.FIG_ID%TYPE)

IS

--Count Variable
```

```
v_count NUMBER :=0;

CURSOR cur_comp IS

    SELECT F.FIG_NAME,ORG.ORGNAME

    FROM ORGANIZATION ORG

    JOIN CONTRIBUTIONS CS

    ON ORG.ORGID = CS.ORG_ID

    JOIN FIGURE F

    ON CS.FIG_ID = F.FIG_ID

    WHERE CS.FIG_ID = v_fig_id;

BEGIN

    FOR v_fig_name IN (SELECT FIG_NAME FROM FIGURE WHERE FIG_ID = v_fig_id)

    LOOP

        DBMS_OUTPUT.PUT_LINE('The list of organization that '|| v_fig_name.FIG_NAME
||' managed are : ');

    END LOOP;


    FOR v_fig_rec IN cur_comp LOOP

        v_count := v_count + 1;

        DBMS_OUTPUT.PUT_LINE( v_count ||') ' ||  v_fig_rec.ORGNAME );

    END LOOP;

EXCEPTION

 WHEN INVALID_CURSOR THEN

    DBMS_OUTPUT.PUT_LINE('Cursor is facing problem !');

 WHEN NO_DATA_FOUND THEN

    -- Handle the case when no data is found

    DBMS_OUTPUT.PUT_LINE('No Data Found');

 WHEN OTHERS THEN

    -- Handle other exceptions

    DBMS_OUTPUT.PUT_LINE('Error, Please try again !');

END getOrganization;
```

```
BEGIN

getOrganization('F04');

END;
```

RESULT :

```
Results    Explain    Describe    Saved SQL    History

The list of organization that Robert Kuok Hock Nien  managed are :
1) Kuok Brothers Sdn Bhd

Statement processed.


0.00 seconds
```

7. Who honored each figure with the Tan Sri title?

```
CREATE OR REPLACE PROCEDURE getHonouredBy(v_fig_id IN FIGURE.FIG_ID%TYPE)

IS

CURSOR cur_rec (p_fig_id FIGURE.FIG_ID%TYPE) IS

   SELECT F.FIG_NAME , T.TITLE_NAME , R.HONORED_BY

   FROM RECOGNIZED R

   JOIN TITLE T

   ON R.TITLE_ID = T.TITLE_ID

   JOIN FIGURE F

   ON R.FIG_ID = F.FIG_ID

   WHERE R.FIG_ID = p_fig_id AND TITLE_NAME = 'Tan Sri' ;

   v_figure_rec cur_rec%ROWTYPE;

BEGIN

   OPEN cur_rec(v_fig_id);

     LOOP

        FETCH cur_rec INTO v_figure_rec;

        IF cur_rec%ROWCOUNT <=0

        THEN

          DBMS_OUTPUT.PUT_LINE('No Data Found');

        END IF;

        EXIT WHEN cur_rec%NOTFOUND;

         DBMS_OUTPUT.PUT_LINE(v_figure_rec.FIG_NAME ||' received the title ' ||
v_figure_rec.TITLE_NAME ||' honored by '|| v_figure_rec.HONORED_BY || '.' );

     END LOOP;

   CLOSE  cur_rec;

EXCEPTION

 WHEN INVALID_CURSOR THEN

   DBMS_OUTPUT.PUT_LINE('Cursor is facing problem !');

 WHEN NO_DATA_FOUND THEN

   -- Handle the case when no data is found

   DBMS_OUTPUT.PUT_LINE('No Data Found');
```

```
  WHEN OTHERS THEN

   -- Handle other exceptions

   DBMS_OUTPUT.PUT_LINE('Error, Please try again !');

END getHonouredBy;


BEGIN

getHonouredBy('F04');

END;
```

RESULT:


```
Results    Explain    Describe    Saved SQL    History

Jeffrey Cheah Fook Ling received the title Tan Sri honored by Yang di-Pertuan Agong.

Statement processed.

0.02 seconds
```

8. What is the motivational slogan or motto of life for each figure?

```
CREATE OR REPLACE PROCEDURE displaySlogan (p_fig_id IN FIGURE.FIG_ID%TYPE)

IS

CURSOR cur_slog IS

   SELECT FIG_NAME,FIG_SLOGAN

   FROM FIGURE

   WHERE FIG_ID = p_fig_id;

BEGIN

   FOR v_slogan IN cur_slog LOOP

     If v_slogan.FIG_SLOGAN = '-' THEN

        DBMS_OUTPUT.PUT_LINE(' Oh no , ' || v_slogan.FIG_NAME ||' does not have
a slogan.');

     ELSE

        DBMS_OUTPUT.PUT_LINE('    The    motivational    slogan    for    '    ||
v_slogan.FIG_NAME ||' is '|| v_slogan.FIG_SLOGAN || '. ' );
```

```
     END IF;

  END LOOP;

EXCEPTION

 WHEN NO_DATA_FOUND THEN

   -- Handle the case when no data is found

  DBMS_OUTPUT.PUT_LINE('No Data Found');

 WHEN OTHERS THEN

   -- Handle other exceptions

  DBMS_OUTPUT.PUT_LINE('Error, Please try again !');

END displaySlogan;



BEGIN

displaySlogan('F02');

END;
```

RESULT


```
Results    Explain    Describe    Saved SQL    History

Oh no , Robert Kuok Hock Nien does not have a slogan.

Statement processed.
```

9. When did the figure start his or her career?

```
CREATE OR REPLACE PROCEDURE getStartCareer(v_fig_id FIGURE.FIG_ID%TYPE)

IS

BEGIN

  FOR v_fig_rec IN (

        SELECT   F.FIG_ID   ,F.FIG_NAME,F.FIG_GENDER,MIN(CRR.CRR_STARTDATE)
STARTDATE

        FROM CAREER CRR

        JOIN FIGURE F
```

```
            ON CRR.FIG_ID = F.FIG_ID

        WHERE F.FIG_ID = v_fig_id

        GROUP BY F.FIG_ID,F.FIG_NAME,F.FIG_GENDER


    )

  LOOP

    IF v_fig_rec.FIG_GENDER = 'Male' THEN

        DBMS_output.put_line(v_fig_rec.FIG_NAME ||' starts his career on '||
v_fig_rec.STARTDATE || '.');

    ELSE

        DBMS_output.put_line(v_fig_rec.FIG_NAME ||' starts her career on '||
v_fig_rec.STARTDATE || '.');

    END IF;

  END LOOP;

EXCEPTION

 WHEN NO_DATA_FOUND THEN

   -- Handle the case when no data is found

  DBMS_OUTPUT.PUT_LINE('No Data Found');

 WHEN OTHERS THEN

   -- Handle other exceptions

  DBMS_OUTPUT.PUT_LINE('Error, Please try again !');

END getStartCareer;


BEGIN

getStartCareer('F02');

END;
```
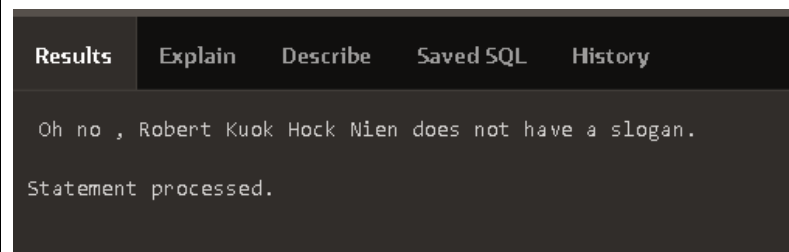
RESULT:

```
Results    Explain    Describe    Saved SQL    History

Mohamed Nazir Tun Abdul Razak starts his career on 1980.

Statement processed.

0.01 seconds
```

10. How did the figure inspire the younger generation?

```
CREATE OR REPLACE PROCEDURE displayInspiration (p_fig_id IN
FIGURE.FIG_ID%TYPE)

IS

v_inspiration FEEDBACK%ROWTYPE;

BEGIN

   SELECT FIG_ID,F_COMMENT

   INTO v_inspiration.FIG_ID,v_inspiration.F_COMMENT

   FROM FEEDBACK

   WHERE FIG_ID = p_fig_id;

   DBMS_OUTPUT.PUT_LINE(v_inspiration.F_COMMENT);

EXCEPTION

 WHEN NO_DATA_FOUND THEN

   -- Handle the case when no data is found

   DBMS_OUTPUT.PUT_LINE('No Data Found');

 WHEN OTHERS THEN

   -- Handle other exceptions

   DBMS_OUTPUT.PUT_LINE('Error, Please try again !');

END displayInspiration;



CREATE OR REPLACE PROCEDURE getInspiration(v_fig_id FIGURE.FIG_ID%TYPE)

IS

CURSOR cur_ins IS
```

```
SELECT FIG_ID,FIG_NAME

FROM FIGURE

WHERE FIG_ID = v_fig_id;

BEGIN

  FOR v_fig_name IN (SELECT FIG_NAME FROM FIGURE WHERE FIG_ID = v_fig_id)

  LOOP

    DBMS_OUTPUT.PUT_LINE(v_fig_name.FIG_NAME   ||'  has  inspire  younger
generation by :');

  END LOOP;

  FOR v_figure_record IN cur_ins LOOP

    displayInspiration(v_figure_record.FIG_ID);

  END LOOP;

EXCEPTION

 WHEN NO_DATA_FOUND THEN

   -- Handle the case when no data is found

   DBMS_OUTPUT.PUT_LINE('Oh no , No data found');

 WHEN OTHERS THEN

   -- Handle other exceptions

   DBMS_OUTPUT.PUT_LINE('Error, Please try again !');

END getInspiration;

BEGIN

getInspiration('F02');

END;
```

RESULT:


```
Results    Explain    Describe    Saved SQL    History

Robert Kuok Hock Nien has inspire younger generation by :
Through a strong strategic vision, he has clear objectives and inventive techniques for organisational succes

Statement processed.
```

11. What are the social activities in which the figure participated?

```
CREATE OR REPLACE PROCEDURE getSocAct (v_fig_id IN FIGURE.FIG_ID%TYPE)

IS

--Count Variable

v_count NUMBER := 0;

CURSOR cur_act (p_fig_id FIGURE.FIG_ID%TYPE) IS

  SELECT F.FIG_NAME , ACT.ACT_NAME , ACT.ACT_DESCRIPTION

  FROM ACTIVITY ACT

  JOIN CONTRIBUTIONS CS

  ON ACT.ACT_ID = CS.ACT_ID

  JOIN FIGURE F

  ON CS.FIG_ID = F.FIG_ID

  WHERE F.FIG_ID = p_fig_id ;

  v_figure_rec cur_act%ROWTYPE;

BEGIN

  --OPEN FIRST

  OPEN cur_act(v_fig_id);

    FETCH cur_act INTO v_figure_rec;

    DBMS_OUTPUT.PUT_LINE(' The social activities that '|| v_figure_rec.FIG_NAME
|| ' has participated are : ');

  CLOSE  cur_act;


  -- OPEN SECOND

  OPEN cur_act(v_fig_id);

    LOOP

      FETCH cur_act INTO v_figure_rec;

      IF cur_act%ROWCOUNT <=0

      THEN

        DBMS_OUTPUT.PUT_LINE(' Oh no , No Data Found');

      END IF;

      EXIT WHEN cur_act%NOTFOUND;

        v_count := v_count + 1;
```

```
            DBMS_OUTPUT.PUT_LINE(v_count ||' )'|| v_figure_rec.ACT_NAME);

            DBMS_OUTPUT.PUT_LINE(' - '|| v_figure_rec.ACT_DESCRIPTION);

        END LOOP;

    CLOSE  cur_act;

EXCEPTION

 WHEN NO_DATA_FOUND THEN

   -- Handle the case when no data is found

   DBMS_OUTPUT.PUT_LINE(' Oh no , No data found');

 WHEN OTHERS THEN

   -- Handle other exceptions

   DBMS_OUTPUT.PUT_LINE(' Error, Please try again !');

END getSocAct;


BEGIN

getSocAct('F02');

END;
```

RESULT :

```
 The social activities that Robert Kuok Hock Nien has participated are :
1 )FOUNDATION OF KUOK GROUP
 - Kuok and his cousin, Kuok Hock Chin established the Kuok Foundation in 1970 to reduce
poverty the economic gap between the rich and poor communities and in Malaysia. The Kuok
family strongly believes in its social responsibility to share wealth with the less fortunate.

Statement processed.
```

12. How did the figure start his or her career?

```
CREATE       OR       REPLACE       PROCEDURE       displayCrr(v_fig_id       IN
FIGURE.FIG_ID%TYPE,v_crr_date IN CAREER.CRR_STARTDATE%TYPE )

IS

BEGIN

FOR v_fig_rec IN (

        SELECT FIG_ID,CRR_STARTDATE,CRR_DESCRIPTION
```

```plsql
          FROM CAREER

          WHERE FIG_ID = v_fig_id AND CRR_STARTDATE = v_crr_date

      )

  LOOP

    DBMS_output.put_line(' -'|| v_fig_rec.CRR_DESCRIPTION || '.');

  END LOOP;

EXCEPTION

 WHEN NO_DATA_FOUND THEN

   -- Handle the case when no data is found

   DBMS_OUTPUT.PUT_LINE(' Oh no , No data found');

 WHEN OTHERS THEN

   -- Handle other exceptions

   DBMS_OUTPUT.PUT_LINE(' Error, Please try again !');

END displayCrr;




CREATE    OR    REPLACE    PROCEDURE    getHowStartCareer(v_fig_id    IN
FIGURE.FIG_ID%TYPE )

IS

CURSOR cur_crr

IS

SELECT F.FIG_ID ,MIN(CRR.CRR_STARTDATE) STARTDATE

FROM CAREER CRR

JOIN FIGURE F

ON CRR.FIG_ID = F.FIG_ID

WHERE F.FIG_ID =v_fig_id

GROUP BY F.FIG_ID;

v_crr cur_crr%ROWTYPE;

BEGIN

  FOR v_fig_name IN (SELECT FIG_NAME, FIG_GENDER FROM FIGURE WHERE FIG_ID
= v_fig_id)
```

```plsql
    LOOP

      IF v_fig_name.FIG_GENDER = 'Male' THEN

        DBMS_OUTPUT.PUT_LINE( v_fig_name.FIG_NAME ||'  starts his carrer by : ');

      ELSE

        DBMS_OUTPUT.PUT_LINE( v_fig_name.FIG_NAME ||'  starts her carrer by  : ');

      END IF;

    END LOOP;

    OPEN cur_crr;

      LOOP

        FETCH cur_crr INTO v_crr;

        EXIT WHEN cur_crr%NOTFOUND;

        displayCrr(v_crr.FIG_ID,v_crr.STARTDATE);

      END LOOP;

    CLOSE cur_crr;

EXCEPTION

 WHEN NO_DATA_FOUND THEN

   -- Handle the case when no data is found

   DBMS_OUTPUT.PUT_LINE(' Oh no , No data found');

 WHEN OTHERS THEN

   -- Handle other exceptions

   DBMS_OUTPUT.PUT_LINE(' Error, Please try again !');

END getHowStartCareer;


BEGIN

getHowStartCareer('F02');

END;
```
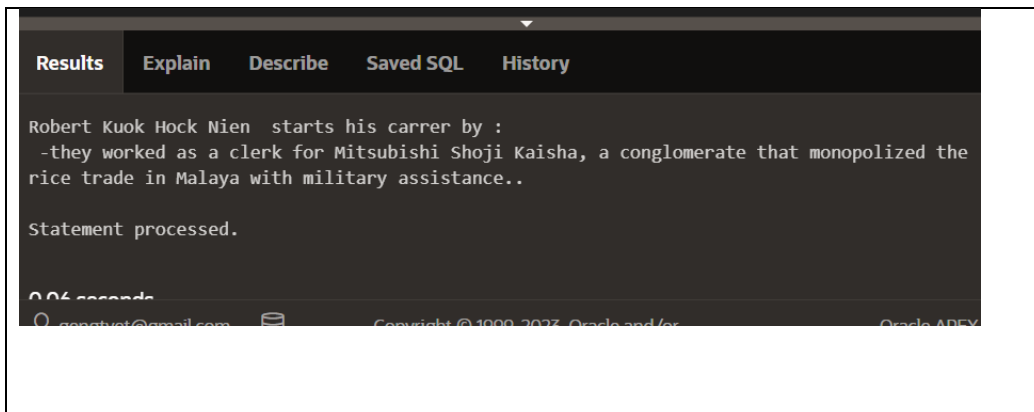
RESULT :

13. What is the place of birth of each figure?

```
CREATE OR REPLACE FUNCTION findPOB(p_fig_id FIGURE.FIG_ID%TYPE)

RETURN VARCHAR IS

 v_pob FIGURE.FIG_PLACEOFBIRTH%TYPE;

BEGIN

   SELECT FIG_PLACEOFBIRTH

   INTO v_pob

   FROM FIGURE

   WHERE FIG_ID = p_fig_id;

   RETURN v_pob;

END findPOB;


CREATE OR REPLACE PROCEDURE displayAllPOB

IS

CURSOR cur_pob IS

SELECT FIG_ID,FIG_NAME

FROM FIGURE;

BEGIN

   FOR v_figure_record IN cur_pob LOOP

     DBMS_OUTPUT.PUT_LINE(v_figure_record.FIG_NAME||'  was  born  at  '  ||
findPOB(v_figure_record.FIG_ID)|| '.');

   END LOOP;

EXCEPTION
```

```
  WHEN NO_DATA_FOUND THEN

    -- Handle the case when no data is found

    DBMS_OUTPUT.PUT_LINE(' Oh no , No data found');

  WHEN OTHERS THEN

    -- Handle other exceptions

    DBMS_OUTPUT.PUT_LINE(' Error, Please try again !');

END displayAllPOB;


BEGIN

displayAllPOB;

END;
```

RESULT:


```
Results    Explain    Describe    Saved SQL    History

Abdul Hadi bin Haji Awang was born at Marang,Terengganu .
Robert Kuok Hock Nien was born at Johor Bahru , Johor .
Annuar bin Musa was born at Bachok, Kelantan .
Jeffrey Cheah Fook Ling was born at Pusing, Perak .
Tengku Razaleigh bin Tengku Mohd Hamzah was born at Kota Bharu, Kelantan .
Ananda Krishnan was born at Brickfields, Kuala Lumpur .
Abdul Rashid Hussain was born at Singapore .
Vincent Tan Chee Yioung was born at Batu Pahat, Johor .
Lim Kit Siang was born at Batu Pahat,Johor .
Musa Mohamad was born at Pulau Pinang .
Mohamed Nazir Tun Abdul Razak was born at Kuala Lumpur .
Azman Mokhtar was born at Melaka .
Mohammed Azlan bin Hashim was born at (NULL) .
Rohana binti Yusuf was born at Bachok, Kelantan .
Rafiah binti Salim was born at Kuala Krai, Kelantan .
Abdul Rahim Noor was born at Serkam, Melaka .
Professor Dr Syed Muhammad Naquib al-Attas was born at Bogor, Java, Dutch East Indies
Anifah Aman @ Haniff Amman was born at Sabah, Malaysia .

Statement processed.

0.01 seconds
```

14. What are the challenges did each figure faced and how did their overcome?

```
CREATE OR REPLACE PROCEDURE displayAllChall

IS

CURSOR cur_chall IS

SELECT F.FIG_ID,F.FIG_NAME ,CH.DESCRIPTION

FROM CHALLENGES CH
```

```sql
JOIN FIGURE F

ON CH.FIG_ID = F.FIG_ID;

BEGIN

  FOR v_fig_record IN cur_chall LOOP

    FOR v_fig_name IN (SELECT FIG_NAME, FIG_GENDER FROM FIGURE WHERE
FIG_ID = v_fig_record.FIG_ID)

    LOOP

      DBMS_OUTPUT.PUT_LINE('The challenges that '|| v_fig_name.FIG_NAME ||'
faced are :');

      DBMS_OUTPUT.PUT_LINE(' -' || v_fig_record.DESCRIPTION  || '.');

      DBMS_OUTPUT.PUT_LINE(' -----------------------------------------');

    END LOOP;

  END LOOP;

EXCEPTION -- Exception Part

  WHEN NO_DATA_FOUND THEN

  DBMS_OUTPUT.PUT_LINE ('Data cannot be found !');

  WHEN OTHERS THEN

  DBMS_OUTPUT.PUT_LINE ('Error, Please try Again.');

END displayAllChall;


BEGIN

displayAllChall;

END;
```

RESULT :

```
The challenges that Rafiah binti Salim faced are :
 -Breaking Gender Barriers in a traditionally male-dominated field. This would have required overcoming biases and stereotypes..
---------------------------------------------
The challenges that Rafiah binti Salim faced are :
 -Leading Change at the United Nations, as the first Malaysian to be appointed Assistant Secretary-General for Human Resource Management at the United Nations, she was tasked with implementing the UN
change on such a large scale is a significant challenge.
---------------------------------------------
The challenges that Ananda Krishnan faced are :
 -Tycoon Tan Sri T Ananda Krishnan will face the twin challenges of pricing and political risks in his attempt to sell his entire power portfolio, held under Tanjong Energy Sdn Bhd, in Asia and the M
price tag of US$2 billion (about RM6 billion)..
---------------------------------------------
The challenges that Ananda Krishnan faced are :
 -Before the pandemic hit the whole world, A.K was listed under Malaysia's third-richest on Forbes' 2020 Malaysia's 50 Richest list despite his Indian telecom firm Aircel, opted for bankruptcy protec
an estimated amount of US$7 billion investment into the company..
---------------------------------------------
The challenges that Annuar bin Musa faced are :
 -In 2016, Annuar's decision to quit as Kafa president during Kelantan football team, The Red Warriors (TRW) was going through bad performances and the financial problem of settling outstanding footb
salaries was questioned by many who had likened him to "the captain abandoning his sinking ship"..
---------------------------------------------
The challenges that Abdul Rashid Hussain faced are :
 -On December 3, 2010, his case of being swindled RM7 million by Singaporean businessperson Sharida Abdul Majid was brought to the Kuala Lumpur Sessions Court. In September 2009 and on November 13, 2
Building B, Peremba Square, Saujana Resort, he was deceived into receiving a 'gift contract' valued at B$8 million (approximately RM19.2 million) to hand over RM7 million in the form of three Standar
---------------------------------------------
The challenges that Abdul Rashid Hussain faced are :
 -RHB Equities Sdn Bhd and RHB Investment Bank Bhd (formerly RHB Securities Berhad) sued Tan Sri Rashid Hussain and five other individuals for a total sum of RM1.43 billion for alleged breach of fidu
negligence in 2005..
---------------------------------------------
```

15. What is the key event contributed by each figure?

```
CREATE OR REPLACE PROCEDURE getKeyEvent(v_fig_id IN FIGURE.FIG_ID%TYPE)

IS

--Declaration

v_count NUMBER :=0;

BEGIN

  FOR v_fig_rec IN (

      SELECT ACT.ACT_NAME , ACT.ACT_DESCRIPTION , ACT.ACT_EFFECT

      FROM ACTIVITY ACT

      JOIN CONTRIBUTIONS CS

      ON ACT.ACT_ID = CS.ACT_ID

      JOIN FIGURE F

      ON CS.FIG_ID = F.FIG_ID

      WHERE F.FIG_ID = v_fig_id

    )

  LOOP

    v_count := v_count + 1;

    DBMS_output.put_line(v_count || ') ' ||v_fig_rec.ACT_NAME);

    DBMS_output.put_line('Decsription : '||v_fig_rec.ACT_DESCRIPTION|| ' . ');

    DBMS_output.put_line('Effects : ' ||v_fig_rec.ACT_EFFECT|| ' . ');

    DBMS_output.put_line(' ');

  END LOOP;

EXCEPTION -- Exception Part

  WHEN NO_DATA_FOUND THEN

  DBMS_OUTPUT.PUT_LINE ('Data cannot be found !');

  WHEN OTHERS THEN

  DBMS_OUTPUT.PUT_LINE ('Error, Please try Again.');

END getKeyEvent;



CREATE OR REPLACE PROCEDURE displayAllKeyEvent

IS
```

```
BEGIN

FOR v_fig IN (

        SELECT FIG_ID,FIG_NAME

        FROM FIGURE

     )

  LOOP

    DBMS_OUTPUT.PUT_LINE (v_fig.FIG_NAME);

    DBMS_output.put_line('--------------------------------------');

    getKeyEvent(v_fig.FIG_ID);

  END LOOP;

EXCEPTION

  WHEN NO_DATA_FOUND THEN

  -- Handle the case when no data is found

    DBMS_OUTPUT.PUT_LINE(' Oh no , No data found');

  WHEN OTHERS THEN

  -- Handle other exceptions

    DBMS_OUTPUT.PUT_LINE(' Error, Please try again !');

END displayAllKeyEvent;


BEGIN

displayAllKeyEvent;

END;
```

RESULT:

```
Abdul Hadi bin Haji Awang
----------------------------------------
Robert Kuok Hock Nien
----------------------------------------
1) FOUNDATION OF KUOK GROUP
Decsription : Kuok and his cousin, Kuok Hock Chin established the Kuok Foundation in 1970 to reduce poverty the e
responsibility to share wealth with the less fortunate. .
Effects : overcome poor issue .

Annuar bin Musa
----------------------------------------
1) attended in a virtual manner the launch of the national-level HSN celebration
Decsription : Communications and Multimedia Minister Tan Sri Annuar Musa has described the National Sports Day (H
line with the aspirations of the Malaysian Family. .
Effects : strengthen racial ties and boost the spirit of patriotism. .

Jeffrey Cheah Fook Ling
----------------------------------------
1) Sunway City Development
Decsription : Malaysia's first fully integrated green township recognition .
Effects : Established a healthy environment for Malaysians .

2) Philantropic Activity
Decsription : US 39 million donation to scholarships .
Effects : Create a future for Malaysians to pursue their studies in .
```

16. What are the process to be nominated and conferring the Tan Sri title for figure work in Malaysia ?

```
CREATE OR REPLACE PROCEDURE displayNominatedProcess

IS

CURSOR cur_title IS

SELECT TITLE_NAME,DESCRIPTION --Statement

FROM TITLE

WHERE TITLE_ID = 1 OR TITLE_NAME = 'Tan Sri';

v_count Number :=0;

BEGIN

   DBMS_OUTPUT.PUT_LINE('The process nominated to get the title of Tan Sri :');

   FOR v_fig_record IN cur_title LOOP

      v_count := v_count + 1;

      DBMS_OUTPUT.PUT_LINE(v_count||') '||v_fig_record.DESCRIPTION  || '.');

      DBMS_output.put_line(' ');

   END LOOP;

EXCEPTION -- Exception Part

   WHEN NO_DATA_FOUND THEN

   DBMS_OUTPUT.PUT_LINE ('Data cannot be found !');

   WHEN OTHERS THEN

   DBMS_OUTPUT.PUT_LINE ('Error, Please try Again.');

END displayNominatedProcess;


BEGIN

displayNominatedProcess;

END;
```

RESULT:

The process nominated to get the title of Tan Sri :
1) Tan Sri is the second-most senior federal title and a honorific, used to denote recipients of the Panglima Mangku M
of the Order of Loyalty to the Crown of Malaysia) (PSM)..

2) The next rung down of Tun are made a Tan Sri (whose wife gets Puan Sri).

3) Tan Sri is an honorary title conferred on distinguished persons by the King of Malaysia or the Sultan of their Stat

17. How many of young generation know the figure?

```
CREATE OR REPLACE FUNCTION countPopular(p_fig_id  FIGURE.FIG_ID%TYPE)  --
function

RETURN NUMBER IS

 v_total NUMBER;

BEGIN

  SELECT COUNT(FB.U_ID)

  INTO v_total

  FROM FEEDBACK FB

  WHERE FB.FIG_ID = p_fig_id;

  RETURN v_total;

END countPopular;




CREATE OR REPLACE PROCEDURE getFigurePopularity(p_fig_id FIGURE.FIG_ID%TYPE)

IS

CURSOR cur_pop IS

SELECT FIG_ID,FIG_NAME

FROM FIGURE

WHERE FIG_ID = p_fig_id ;

BEGIN

  FOR v_figure_record IN cur_pop LOOP

    DBMS_OUTPUT.PUT_LINE('Total young generation that knows ' ||

    v_figure_record.FIG_NAME || ' is ' || countPopular(v_figure_record.FIG_ID) || '
.');

  END LOOP;

EXCEPTION -- Exception Part

  WHEN NO_DATA_FOUND THEN

  DBMS_OUTPUT.PUT_LINE ('Data cannot be found !');

  WHEN OTHERS THEN

  DBMS_OUTPUT.PUT_LINE ('Error, Please try Again.');
```

```
END getFigurePopularity;


BEGIN

  getFigurePopularity('F02');

END;
```

RESULT :

6.0 Package Code

Package Code

```
--Package Code
CREATE OR REPLACE PACKAGE tansrigroup2_pkg
IS
PROCEDURE getReceivedTanSri(v_fig_id IN
FIGURE.FIG_ID%TYPE);
PROCEDURE getFigurePub;
PROCEDURE getReceiveTitlePlace(v_fig_id IN
FIGURE.FIG_ID%TYPE);
PROCEDURE getCategory(v_fig_id IN FIGURE.FIG_ID%TYPE);
PROCEDURE getAward(v_fig_id IN FIGURE.FIG_ID%TYPE);
PROCEDURE getOrganization(v_fig_id IN
FIGURE.FIG_ID%TYPE);
PROCEDURE getHonouredBy(v_fig_id IN FIGURE.FIG_ID%TYPE);
PROCEDURE displaySlogan (p_fig_id IN FIGURE.FIG_ID%TYPE);
PROCEDURE getStartCareer(v_fig_id FIGURE.FIG_ID%TYPE);
PROCEDURE displayInspiration (p_fig_id IN
FIGURE.FIG_ID%TYPE);
PROCEDURE getInspiration(v_fig_id FIGURE.FIG_ID%TYPE);
PROCEDURE getSocAct (v_fig_id IN FIGURE.FIG_ID%TYPE);
PROCEDURE displayCrr(v_fig_id IN
FIGURE.FIG_ID%TYPE,v_crr_date IN
CAREER.CRR_STARTDATE%TYPE);
PROCEDURE getHowStartCareer(v_fig_id IN
FIGURE.FIG_ID%TYPE);
FUNCTION findPOB(p_fig_id FIGURE.FIG_ID%TYPE) RETURN
VARCHAR;
PROCEDURE displayAllPOB;
PROCEDURE displayAllChall;
PROCEDURE getKeyEvent(v_fig_id IN FIGURE.FIG_ID%TYPE);
PROCEDURE displayAllKeyEvent;
PROCEDURE displayNominatedProcess;
FUNCTION countPopular(p_fig_id FIGURE.FIG_ID%TYPE) RETURN
NUMBER;
PROCEDURE getFigurePopularity(p_fig_id
FIGURE.FIG_ID%TYPE);
END tansrigroup2_pkg;



CREATE OR REPLACE PACKAGE BODY tansrigroup2_pkg
IS


--Q1
```

```
PROCEDURE getReceivedTanSri(v_fig_id IN
FIGURE.FIG_ID%TYPE)
IS
CURSOR cur_rec (p_fig_id FIGURE.FIG_ID%TYPE) IS
    SELECT F.FIG_NAME , T.TITLE_NAME , R.R_DATE
    FROM RECOGNIZED R
    JOIN TITLE T
    ON R.TITLE_ID = T.TITLE_ID
    JOIN FIGURE F
    ON R.FIG_ID = F.FIG_ID
    WHERE R.FIG_ID = p_fig_id;
    v_figure_rec cur_rec%ROWTYPE;
BEGIN
    OPEN cur_rec(v_fig_id);

        LOOP
            FETCH cur_rec INTO v_figure_rec;
            IF cur_rec%ROWCOUNT <=0
            THEN
                DBMS_OUTPUT.PUT_LINE('No Data Found');
            END IF;
            EXIT WHEN cur_rec%NOTFOUND;
             DBMS_OUTPUT.PUT_LINE(v_figure_rec.FIG_NAME
||' received the Title ' || v_figure_rec.TITLE_NAME ||'
on '|| v_figure_rec.R_DATE || '.' );
        END LOOP;
    CLOSE  cur_rec;
EXCEPTION
  WHEN INVALID_CURSOR THEN
    DBMS_OUTPUT.PUT_LINE('Cursor is facing problem !');
  WHEN NO_DATA_FOUND THEN
    -- Handle the case when no data is found
    DBMS_OUTPUT.PUT_LINE('No Data Found');
  WHEN OTHERS THEN
    -- Handle other exceptions
    DBMS_OUTPUT.PUT_LINE('Error, Please try again !');
END getReceivedTanSri;
--End Q1

--Q2
PROCEDURE getFigurePub
IS
CURSOR cur_pub
IS
SELECT F.FIG_NAME, COUNT(PF.PUB_ID) totals
FROM PUBLICATION_FIGURE PF
```

```
JOIN FIGURE F
ON PF.FIG_ID = F.FIG_ID
GROUP BY F.FIG_NAME;
v_pub cur_pub%ROWTYPE;
BEGIN
    OPEN cur_pub;
    LOOP
    FETCH cur_pub INTO v_pub;
    IF cur_pub%ROWCOUNT <=0
        THEN
        DBMS_OUTPUT.PUT_LINE('No Data Found');
        END IF;
    EXIT WHEN cur_pub%NOTFOUND;
        DBMS_OUTPUT.PUT_LINE('The total number of
publications made by '||v_pub.FIG_NAME||' is ' ||
v_pub.totals || ' .');
    END LOOP;
    CLOSE cur_pub;
EXCEPTION
  WHEN INVALID_CURSOR THEN
    DBMS_OUTPUT.PUT_LINE('Cursor is facing problem !');
  WHEN NO_DATA_FOUND THEN
    -- Handle the case when no data is found
    DBMS_OUTPUT.PUT_LINE('No Data Found');
  WHEN OTHERS THEN
    -- Handle other exceptions
    DBMS_OUTPUT.PUT_LINE('Error, Please try again !');
END getFigurePub;
--End Q2


--Q3
PROCEDURE getReceiveTitlePlace(v_fig_id IN
FIGURE.FIG_ID%TYPE)
IS
CURSOR cur_rec (p_fig_id FIGURE.FIG_ID%TYPE)
IS
    SELECT F.FIG_ID, F.FIG_NAME , T.TITLE_NAME , R.PLACE
    FROM RECOGNIZED R
    JOIN TITLE T
    ON R.TITLE_ID = T.TITLE_ID
    JOIN FIGURE F
    ON R.FIG_ID = F.FIG_ID
    WHERE TITLE_NAME = 'Tan Sri'
    AND F.FIG_ID = p_fig_id ;
    v_figure_rec cur_rec%ROWTYPE;
```

```
BEGIN
    OPEN cur_rec(v_fig_id);
        LOOP
            FETCH cur_rec INTO v_figure_rec;
            IF cur_rec%ROWCOUNT <=0
            THEN
                DBMS_OUTPUT.PUT_LINE('No Data Found');
            END IF;
            EXIT WHEN cur_rec%NOTFOUND;
                DBMS_OUTPUT.PUT_LINE(v_figure_rec.FIG_NAME
||' received the title ' || v_figure_rec.TITLE_NAME ||'
at '|| v_figure_rec.PLACE || '.' );
        END LOOP;
    CLOSE  cur_rec;
EXCEPTION
  WHEN INVALID_CURSOR THEN
    DBMS_OUTPUT.PUT_LINE('Cursor is facing problem !');
  WHEN NO_DATA_FOUND THEN
    -- Handle the case when no data is found
    DBMS_OUTPUT.PUT_LINE('No Data Found');
  WHEN OTHERS THEN
    -- Handle other exceptions
    DBMS_OUTPUT.PUT_LINE('Error, Please try again !');
END getReceiveTitlePlace;
--End Q3


--Q4
PROCEDURE getCategory(v_fig_id IN FIGURE.FIG_ID%TYPE)
IS
v_count Number :=0;
BEGIN
    FOR v_fig_name IN (SELECT FIG_NAME FROM FIGURE WHERE
FIG_ID = v_fig_id)
    LOOP
        DBMS_output.put_line('The category that '||
v_fig_name.FIG_NAME ||' contributed is :');
    END LOOP;

    FOR v_fig_rec IN (
                SELECT F.FIG_ID , F.FIG_NAME,CAT.NAME
                FROM CONTRIBUTIONS CS
                JOIN FIGURE F
                ON CS.FIG_ID = F.FIG_ID
                JOIN ACTIVITY ACT
                ON CS.ACT_ID = ACT.ACT_ID
```

```
                JOIN CATEGORY CAT
                ON ACT.CTGRY_ID = CAT.CTGRY_ID
                WHERE F.FIG_ID = v_fig_id
        )
    LOOP
        v_count:=v_count+1;
        DBMS_output.put_line(v_count||')
'||v_fig_rec.NAME || '.');
    END LOOP;
EXCEPTION
  WHEN NO_DATA_FOUND THEN
    -- Handle the case when no data is found
    DBMS_OUTPUT.PUT_LINE('No Data Found');
  WHEN OTHERS THEN
    -- Handle other exceptions
    DBMS_OUTPUT.PUT_LINE('Error, Please try again !');
END getCategory;
--End Q4




--Q5
PROCEDURE getAward(v_fig_id IN FIGURE.FIG_ID%TYPE)
IS
--Count Variable
v_count NUMBER :=0;
CURSOR cur_awd IS
SELECT F.FIG_NAME,AWD.AWD_NAME
FROM AWARD AWD
JOIN FIGURE F
ON AWD.FIG_ID = F.FIG_ID
WHERE AWD.FIG_ID = v_fig_id;
BEGIN
    FOR v_fig_name IN (SELECT FIG_NAME FROM FIGURE WHERE
FIG_ID = v_fig_id)
    LOOP
        DBMS_OUTPUT.PUT_LINE('The award that
'||v_fig_name.FIG_NAME||' received is : ');
    END LOOP;

    FOR v_fig_rec IN cur_awd LOOP
        v_count := v_count + 1;
        DBMS_OUTPUT.PUT_LINE( v_count ||') '  ||
v_fig_rec.AWD_NAME );
    END LOOP;
EXCEPTION
```

```plsql
  WHEN NO_DATA_FOUND THEN
    -- Handle the case when no data is found
    DBMS_OUTPUT.PUT_LINE('No Data Found');
  WHEN OTHERS THEN
    -- Handle other exceptions
    DBMS_OUTPUT.PUT_LINE('Error, Please try again !');
END getAward;
-- End Q5



--Q6
PROCEDURE getOrganization(v_fig_id IN FIGURE.FIG_ID%TYPE)
IS
--Count Variable
v_count NUMBER :=0;
CURSOR cur_comp IS
    SELECT F.FIG_NAME,ORG.ORGNAME
    FROM ORGANIZATION ORG
    JOIN CONTRIBUTIONS CS
    ON ORG.ORGID = CS.ORG_ID
    JOIN FIGURE F
    ON CS.FIG_ID = F.FIG_ID
    WHERE CS.FIG_ID = v_fig_id;
BEGIN
    FOR v_fig_name IN (SELECT FIG_NAME FROM FIGURE WHERE
FIG_ID = v_fig_id)
    LOOP
       DBMS_OUTPUT.PUT_LINE('The list of organization
that '|| v_fig_name.FIG_NAME ||'  managed are : ');
    END LOOP;

    FOR v_fig_rec IN cur_comp LOOP
        v_count := v_count + 1;
        DBMS_OUTPUT.PUT_LINE( v_count ||') ' ||
v_fig_rec.ORGNAME );
    END LOOP;
EXCEPTION
  WHEN INVALID_CURSOR THEN
    DBMS_OUTPUT.PUT_LINE('Cursor is facing problem !');
  WHEN NO_DATA_FOUND THEN
    -- Handle the case when no data is found
    DBMS_OUTPUT.PUT_LINE('No Data Found');
  WHEN OTHERS THEN
    -- Handle other exceptions
    DBMS_OUTPUT.PUT_LINE('Error, Please try again !');
```

```
END getOrganization;
--End Q6



--Q7
PROCEDURE getHonouredBy(v_fig_id IN FIGURE.FIG_ID%TYPE)
IS
CURSOR cur_rec (p_fig_id FIGURE.FIG_ID%TYPE) IS
    SELECT F.FIG_NAME , T.TITLE_NAME , R.HONORED_BY
    FROM RECOGNIZED R
    JOIN TITLE T
    ON R.TITLE_ID = T.TITLE_ID
    JOIN FIGURE F
    ON R.FIG_ID = F.FIG_ID
    WHERE R.FIG_ID = p_fig_id AND TITLE_NAME = 'Tan Sri'
;
    v_figure_rec cur_rec%ROWTYPE;
BEGIN
    OPEN cur_rec(v_fig_id);
        LOOP
            FETCH cur_rec INTO v_figure_rec;
            IF cur_rec%ROWCOUNT <=0
            THEN
                DBMS_OUTPUT.PUT_LINE('No Data Found');
            END IF;
            EXIT WHEN cur_rec%NOTFOUND;
              DBMS_OUTPUT.PUT_LINE(v_figure_rec.FIG_NAME
||' received the title ' || v_figure_rec.TITLE_NAME ||'
honored by '|| v_figure_rec.HONORED_BY || '.' );
        END LOOP;
    CLOSE  cur_rec;
EXCEPTION
  WHEN INVALID_CURSOR THEN
    DBMS_OUTPUT.PUT_LINE('Cursor is facing problem !');
  WHEN NO_DATA_FOUND THEN
    -- Handle the case when no data is found
    DBMS_OUTPUT.PUT_LINE('No Data Found');
  WHEN OTHERS THEN
    -- Handle other exceptions
    DBMS_OUTPUT.PUT_LINE('Error, Please try again !');
END getHonouredBy;
--End Q7



--Q8
PROCEDURE displaySlogan (p_fig_id IN FIGURE.FIG_ID%TYPE)
```

```
IS
CURSOR cur_slog IS
    SELECT FIG_NAME,FIG_SLOGAN
    FROM FIGURE
    WHERE FIG_ID = p_fig_id;
BEGIN
    FOR v_slogan IN cur_slog LOOP
        If v_slogan.FIG_SLOGAN = '-' THEN
            DBMS_OUTPUT.PUT_LINE(' Oh no , ' ||
v_slogan.FIG_NAME ||' does not have a slogan.');
        ELSE
            DBMS_OUTPUT.PUT_LINE(' The motivational
slogan for ' || v_slogan.FIG_NAME ||' is '||
v_slogan.FIG_SLOGAN || '. ' );
        END IF;
    END LOOP;
EXCEPTION
  WHEN NO_DATA_FOUND THEN
    -- Handle the case when no data is found
    DBMS_OUTPUT.PUT_LINE('No Data Found');
  WHEN OTHERS THEN
    -- Handle other exceptions
    DBMS_OUTPUT.PUT_LINE('Error, Please try again !');
END displaySlogan;
--End Q8



--Q9
PROCEDURE getStartCareer(v_fig_id FIGURE.FIG_ID%TYPE)
IS
BEGIN
    FOR v_fig_rec IN (
                SELECT F.FIG_ID
,F.FIG_NAME,F.FIG_GENDER,MIN(CRR.CRR_STARTDATE) STARTDATE
                FROM CAREER CRR
                JOIN FIGURE F
                ON CRR.FIG_ID = F.FIG_ID
                WHERE F.FIG_ID = v_fig_id
                GROUP BY F.FIG_ID,F.FIG_NAME,F.FIG_GENDER

        )
    LOOP
        IF v_fig_rec.FIG_GENDER = 'Male' THEN
            DBMS_output.put_line(v_fig_rec.FIG_NAME ||'
starts his career on '|| v_fig_rec.STARTDATE || '.');
```

```
            ELSE
                DBMS_output.put_line(v_fig_rec.FIG_NAME ||'
starts her career on '|| v_fig_rec.STARTDATE || '.');
            END IF;
        END LOOP;
EXCEPTION
   WHEN NO_DATA_FOUND THEN
        -- Handle the case when no data is found
        DBMS_OUTPUT.PUT_LINE('No Data Found');
   WHEN OTHERS THEN
        -- Handle other exceptions
        DBMS_OUTPUT.PUT_LINE('Error, Please try again !');
END getStartCareer;
--End Q9

--Q10
PROCEDURE displayInspiration (p_fig_id IN
FIGURE.FIG_ID%TYPE)
IS
v_inspiration FEEDBACK%ROWTYPE;
BEGIN
        SELECT FIG_ID,F_COMMENT
        INTO v_inspiration.FIG_ID,v_inspiration.F_COMMENT
        FROM FEEDBACK
        WHERE FIG_ID = p_fig_id;
        DBMS_OUTPUT.PUT_LINE(v_inspiration.F_COMMENT);
EXCEPTION
   WHEN NO_DATA_FOUND THEN
        -- Handle the case when no data is found
        DBMS_OUTPUT.PUT_LINE('No Data Found');
   WHEN OTHERS THEN
        -- Handle other exceptions
        DBMS_OUTPUT.PUT_LINE('Error, Please try again !');
END displayInspiration;

PROCEDURE getInspiration(v_fig_id FIGURE.FIG_ID%TYPE)
IS
CURSOR cur_ins IS
SELECT FIG_ID,FIG_NAME
FROM FIGURE
WHERE FIG_ID = v_fig_id;
BEGIN
        FOR v_fig_name IN (SELECT FIG_NAME FROM FIGURE WHERE
FIG_ID = v_fig_id)
        LOOP
```

```
            DBMS_OUTPUT.PUT_LINE(v_fig_name.FIG_NAME ||' has
inspire younger generation by :');
    END LOOP;
    FOR v_figure_record IN cur_ins LOOP
        displayInspiration(v_figure_record.FIG_ID);
    END LOOP;
EXCEPTION
  WHEN NO_DATA_FOUND THEN
    -- Handle the case when no data is found
    DBMS_OUTPUT.PUT_LINE('Oh no , No data found');
  WHEN OTHERS THEN
    -- Handle other exceptions
    DBMS_OUTPUT.PUT_LINE('Error, Please try again !');
END getInspiration;
--End Q10

--Q11
PROCEDURE getSocAct (v_fig_id IN FIGURE.FIG_ID%TYPE)
IS
--Count Variable
v_count NUMBER := 0;
CURSOR cur_act (p_fig_id FIGURE.FIG_ID%TYPE) IS
    SELECT F.FIG_NAME , ACT.ACT_NAME , ACT.ACT_DESCRIPTION
    FROM ACTIVITY ACT
    JOIN CONTRIBUTIONS CS
    ON ACT.ACT_ID = CS.ACT_ID
    JOIN FIGURE F
    ON CS.FIG_ID = F.FIG_ID
    WHERE F.FIG_ID = p_fig_id ;
    v_figure_rec cur_act%ROWTYPE;
BEGIN
    --OPEN FIRST
    OPEN cur_act(v_fig_id);
        FETCH cur_act INTO v_figure_rec;
        DBMS_OUTPUT.PUT_LINE(' The social activities that
'|| v_figure_rec.FIG_NAME || ' has participated are : ');
    CLOSE  cur_act;

    -- OPEN SECOND
    OPEN cur_act(v_fig_id);
        LOOP
            FETCH cur_act INTO v_figure_rec;
            IF cur_act%ROWCOUNT <=0
            THEN
                DBMS_OUTPUT.PUT_LINE(' Oh no , No Data
Found');
```

```
                    END IF;
                    EXIT WHEN cur_act%NOTFOUND;
                        v_count := v_count + 1;
                        DBMS_OUTPUT.PUT_LINE(v_count ||' )'||
v_figure_rec.ACT_NAME);
                        DBMS_OUTPUT.PUT_LINE(' - '||
v_figure_rec.ACT_DESCRIPTION);
            END LOOP;
      CLOSE   cur_act;
EXCEPTION
  WHEN NO_DATA_FOUND THEN
    -- Handle the case when no data is found
    DBMS_OUTPUT.PUT_LINE(' Oh no , No data found');
  WHEN OTHERS THEN
    -- Handle other exceptions
    DBMS_OUTPUT.PUT_LINE(' Error, Please try again !');
END getSocAct;
--End Q11

--Q12
PROCEDURE displayCrr(v_fig_id IN
FIGURE.FIG_ID%TYPE,v_crr_date IN
CAREER.CRR_STARTDATE%TYPE )
IS
BEGIN
FOR v_fig_rec IN (
            SELECT FIG_ID,CRR_STARTDATE,CRR_DESCRIPTION
            FROM CAREER
            WHERE FIG_ID = v_fig_id AND CRR_STARTDATE =
v_crr_date
        )
    LOOP
        DBMS_output.put_line(' -'||
v_fig_rec.CRR_DESCRIPTION || '.');
    END LOOP;
EXCEPTION
  WHEN NO_DATA_FOUND THEN
    -- Handle the case when no data is found
    DBMS_OUTPUT.PUT_LINE(' Oh no , No data found');
  WHEN OTHERS THEN
    -- Handle other exceptions
    DBMS_OUTPUT.PUT_LINE(' Error, Please try again !');
END displayCrr;
```

```
PROCEDURE getHowStartCareer(v_fig_id IN
FIGURE.FIG_ID%TYPE )
IS
CURSOR cur_crr
IS
SELECT F.FIG_ID ,MIN(CRR.CRR_STARTDATE) STARTDATE
FROM CAREER CRR
JOIN FIGURE F
ON CRR.FIG_ID = F.FIG_ID
WHERE F.FIG_ID =v_fig_id
GROUP BY F.FIG_ID;
v_crr cur_crr%ROWTYPE;
BEGIN
    FOR v_fig_name IN (SELECT FIG_NAME, FIG_GENDER FROM
FIGURE WHERE FIG_ID = v_fig_id)
    LOOP
        IF v_fig_name.FIG_GENDER = 'Male' THEN
            DBMS_OUTPUT.PUT_LINE( v_fig_name.FIG_NAME ||'
starts his carrer by : ');
        ELSE
            DBMS_OUTPUT.PUT_LINE( v_fig_name.FIG_NAME ||'
starts her carrer by  : ');
        END IF;
    END LOOP;
    OPEN cur_crr;
        LOOP
            FETCH cur_crr INTO v_crr;
            EXIT WHEN cur_crr%NOTFOUND;
            displayCrr(v_crr.FIG_ID,v_crr.STARTDATE);
        END LOOP;
    CLOSE cur_crr;
EXCEPTION
  WHEN NO_DATA_FOUND THEN
    -- Handle the case when no data is found
    DBMS_OUTPUT.PUT_LINE(' Oh no , No data found');
  WHEN OTHERS THEN
    -- Handle other exceptions
    DBMS_OUTPUT.PUT_LINE(' Error, Please try again !');
END getHowStartCareer;
--End Q12




--Q13
FUNCTION findPOB(p_fig_id FIGURE.FIG_ID%TYPE)
RETURN VARCHAR
```

```
IS
 v_pob FIGURE.FIG_PLACEOFBIRTH%TYPE;
BEGIN
    SELECT FIG_PLACEOFBIRTH
    INTO v_pob
    FROM FIGURE
    WHERE FIG_ID = p_fig_id;
    RETURN v_pob;
END findPOB;


PROCEDURE displayAllPOB
IS
CURSOR cur_pob IS
SELECT FIG_ID,FIG_NAME
FROM FIGURE;
BEGIN
    FOR v_figure_record IN cur_pob LOOP
        DBMS_OUTPUT.PUT_LINE(v_figure_record.FIG_NAME||'
was born at ' || findPOB(v_figure_record.FIG_ID)|| ' .');
    END LOOP;
EXCEPTION
  WHEN NO_DATA_FOUND THEN
    -- Handle the case when no data is found
    DBMS_OUTPUT.PUT_LINE(' Oh no , No data found');
  WHEN OTHERS THEN
    -- Handle other exceptions
    DBMS_OUTPUT.PUT_LINE(' Error, Please try again !');
END displayAllPOB;
--End Q13


--Q14
PROCEDURE displayAllChall
IS
CURSOR cur_chall IS
SELECT F.FIG_ID,F.FIG_NAME ,CH.DESCRIPTION
FROM CHALLENGES CH
JOIN FIGURE F
ON CH.FIG_ID = F.FIG_ID;
BEGIN
    FOR v_fig_record IN cur_chall LOOP
        FOR v_fig_name IN (SELECT FIG_NAME, FIG_GENDER
FROM FIGURE WHERE FIG_ID = v_fig_record.FIG_ID)
        LOOP
            DBMS_OUTPUT.PUT_LINE('The challenges that '||
v_fig_name.FIG_NAME ||' faced are :');
```

```
                DBMS_OUTPUT.PUT_LINE(' -' ||
v_fig_record.DESCRIPTION  || '.');
                DBMS_OUTPUT.PUT_LINE(' --------------------
--------------------');
        END LOOP;
    END LOOP;
EXCEPTION -- Exception Part
    WHEN NO_DATA_FOUND THEN
    DBMS_OUTPUT.PUT_LINE ('Data cannot be found !');
    WHEN OTHERS THEN
    DBMS_OUTPUT.PUT_LINE ('Error, Please try Again.');
END displayAllChall;
--End 14

--Q15
PROCEDURE getKeyEvent(v_fig_id IN FIGURE.FIG_ID%TYPE)
IS
--Declaration
v_count NUMBER :=0;
BEGIN
    FOR v_fig_rec IN (
            SELECT ACT.ACT_NAME , ACT.ACT_DESCRIPTION ,
ACT.ACT_EFFECT
            FROM ACTIVITY ACT
            JOIN CONTRIBUTIONS CS
            ON ACT.ACT_ID = CS.ACT_ID
            JOIN FIGURE F
            ON CS.FIG_ID = F.FIG_ID
            WHERE F.FIG_ID = v_fig_id
        )
    LOOP
        v_count := v_count + 1;
        DBMS_output.put_line(v_count || ') '
||v_fig_rec.ACT_NAME);
        DBMS_output.put_line('Decsription :
'||v_fig_rec.ACT_DESCRIPTION|| ' . ');
        DBMS_output.put_line('Effects : '
||v_fig_rec.ACT_EFFECT|| ' . ');
        DBMS_output.put_line(' ');
    END LOOP;
EXCEPTION -- Exception Part
    WHEN NO_DATA_FOUND THEN
    DBMS_OUTPUT.PUT_LINE ('Data cannot be found !');
    WHEN OTHERS THEN
    DBMS_OUTPUT.PUT_LINE ('Error, Please try Again.');
END getKeyEvent;
```

```
PROCEDURE displayAllKeyEvent
IS
BEGIN
FOR v_fig IN (
            SELECT FIG_ID,FIG_NAME
            FROM FIGURE
        )
    LOOP
        DBMS_OUTPUT.PUT_LINE (v_fig.FIG_NAME);
        DBMS_output.put_line('---------------------------
-----------');
        getKeyEvent(v_fig.FIG_ID);
    END LOOP;
EXCEPTION
    WHEN NO_DATA_FOUND THEN
    -- Handle the case when no data is found
        DBMS_OUTPUT.PUT_LINE(' Oh no , No data found');
    WHEN OTHERS THEN
    -- Handle other exceptions
        DBMS_OUTPUT.PUT_LINE(' Error, Please try again
!');
END displayAllKeyEvent;
--End Q15


--Q16
PROCEDURE displayNominatedProcess
IS
CURSOR cur_title IS
SELECT TITLE_NAME,DESCRIPTION --Statement
FROM TITLE
WHERE TITLE_ID = 1 OR TITLE_NAME = 'Tan Sri';
v_count Number :=0;
BEGIN
    DBMS_OUTPUT.PUT_LINE('The process nominated to get
the title of Tan Sri :');
    FOR v_fig_record IN cur_title LOOP
        v_count := v_count + 1;
        DBMS_OUTPUT.PUT_LINE(v_count||')
'||v_fig_record.DESCRIPTION  || '.');
        DBMS_output.put_line(' ');
    END LOOP;
EXCEPTION -- Exception Part
    WHEN NO_DATA_FOUND THEN
    DBMS_OUTPUT.PUT_LINE ('Data cannot be found !');
```

```
        WHEN OTHERS THEN
        DBMS_OUTPUT.PUT_LINE ('Error, Please try Again.');
END displayNominatedProcess;
--End Q16

--Q17
FUNCTION countPopular(p_fig_id FIGURE.FIG_ID%TYPE) --
function
RETURN NUMBER
IS
 v_total NUMBER;
BEGIN
        SELECT COUNT(FB.U_ID)
        INTO v_total
        FROM FEEDBACK FB
        WHERE FB.FIG_ID = p_fig_id;
        RETURN v_total;
END countPopular;


PROCEDURE getFigurePopularity(p_fig_id
FIGURE.FIG_ID%TYPE)
IS
CURSOR cur_pop IS
SELECT FIG_ID,FIG_NAME
FROM FIGURE
WHERE FIG_ID = p_fig_id ;
BEGIN
        FOR v_figure_record IN cur_pop LOOP
            DBMS_OUTPUT.PUT_LINE('Total young generation that
knows ' ||
            v_figure_record.FIG_NAME || ' is ' ||
countPopular(v_figure_record.FIG_ID) || ' .');
        END LOOP;
EXCEPTION -- Exception Part
        WHEN NO_DATA_FOUND THEN
        DBMS_OUTPUT.PUT_LINE ('Data cannot be found !');
        WHEN OTHERS THEN
        DBMS_OUTPUT.PUT_LINE ('Error, Please try Again.');
END getFigurePopularity;
--End Q17
END tansrigroup2_pkg;


-- Result Code
BEGIN
tansrigroup2_pkg.getReceivedTanSri('F02');
tansrigroup2_pkg.getFigurePub;
```

```
tansrigroup2_pkg.getReceiveTitlePlace('F04');
tansrigroup2_pkg.getCategory('F02');
tansrigroup2_pkg.getAward('F02');
tansrigroup2_pkg.getOrganization('F02');
tansrigroup2_pkg.getHonouredBy('F04');
tansrigroup2_pkg.displaySlogan('F02');
tansrigroup2_pkg.getStartCareer('F12');
tansrigroup2_pkg.getInspiration('F02');
tansrigroup2_pkg.getSocAct('F02');
tansrigroup2_pkg.getHowStartCareer('F02');
tansrigroup2_pkg.displayAllPOB;
tansrigroup2_pkg.displayAllChall;
tansrigroup2_pkg.displayAllKeyEvent;
tansrigroup2_pkg.displayNominatedProcess;
tansrigroup2_pkg.getFigurePopularity('F02');
END;
```

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