PROJECT BREAKDOWN

Step One:

- Install Oracle 19c
- Create database
- Create USER ID (first initial and last name) – with default Tablespace (logical)
- Grant required privileges and roles

Step Two:

- Collect business requirements – meet customers
- Plan and design your application
- Develop ER diagram / data-model – logical view

Step Three:

- Start coding your application (create tables, PK, FK and other constraints)
- Create tables (five – minimum)
- Create relations
- Develop constraints (PK, FK, Composite Key, Not Null, Sequences, Index etc.)
- Insert data into tables (15 rows – minimum)

Step Four:

- Develop SQL queries
- Advanced SQL queries

Step Five:

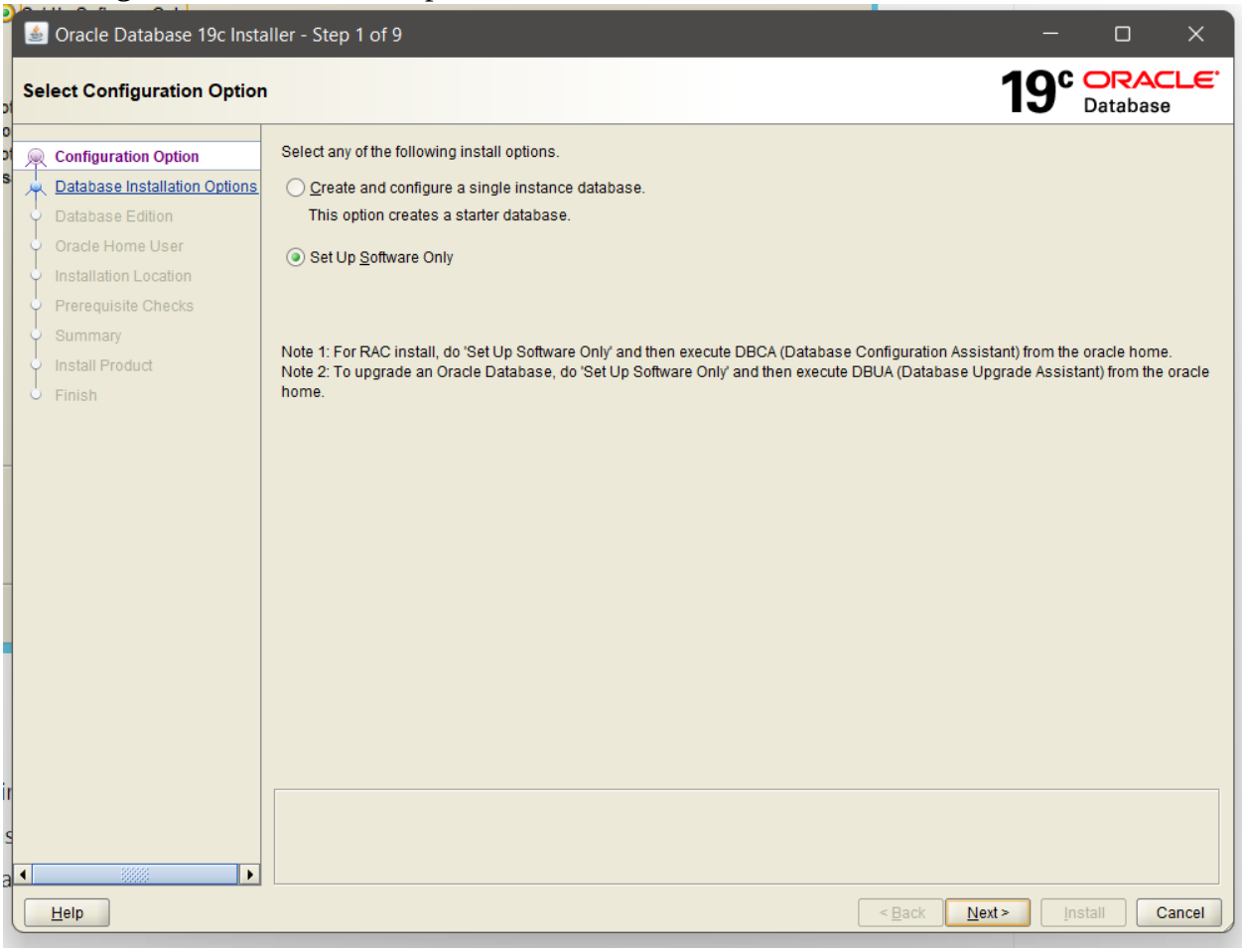
- Develop report
- Analyze data

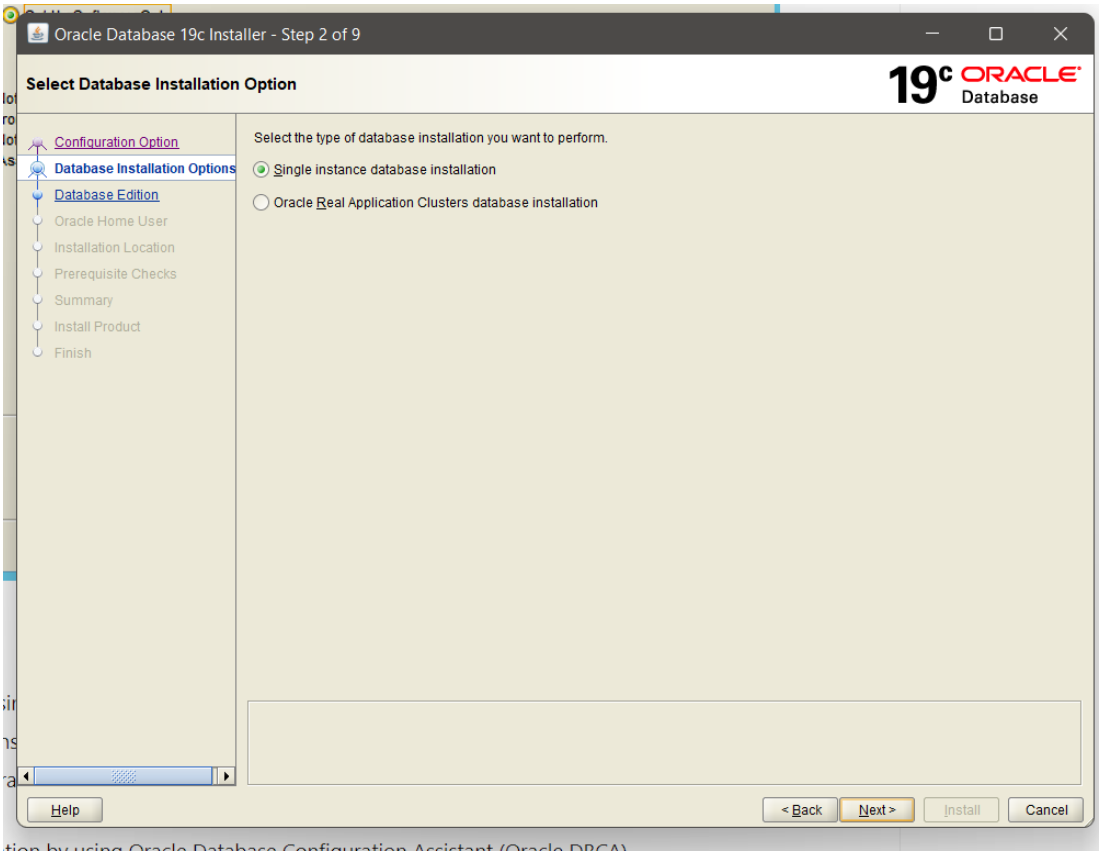
STEP ONE:

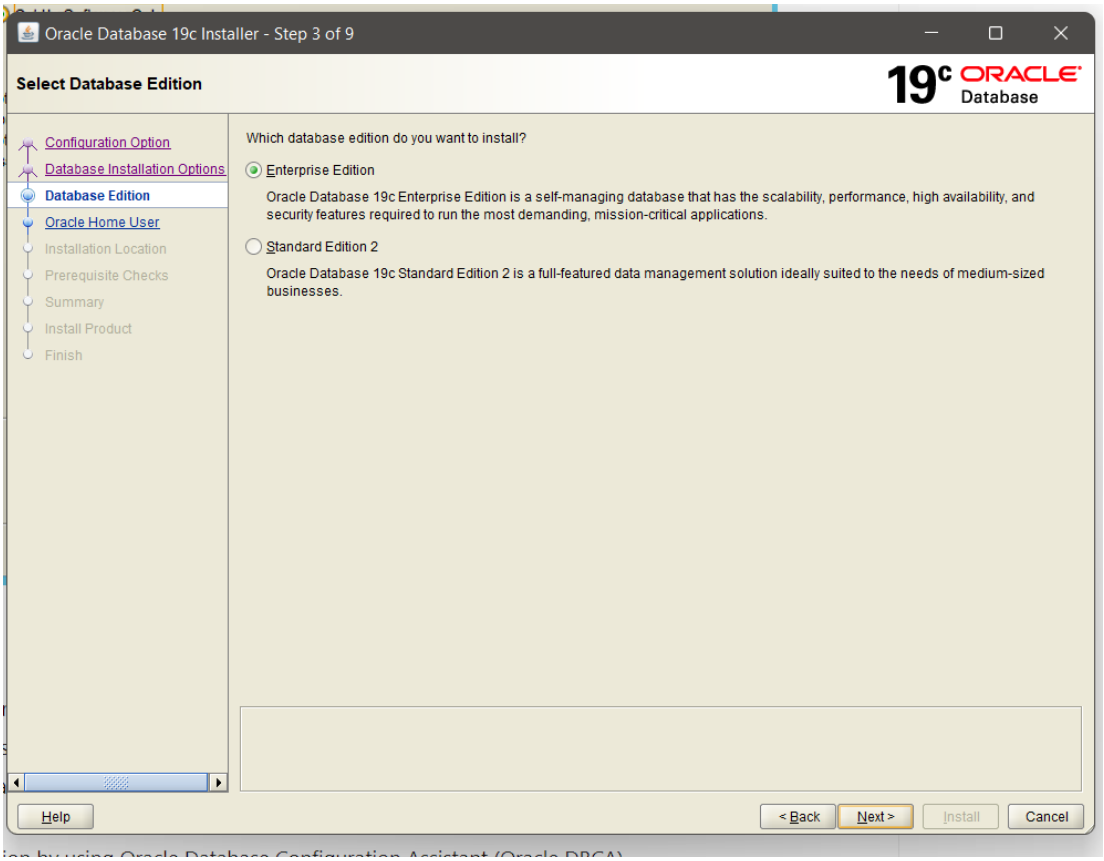
- Install Oracle 19c
- Create database
- Create USER ID (first initial and last name) – with default Tablespace (logical)
- Grant required privileges and roles

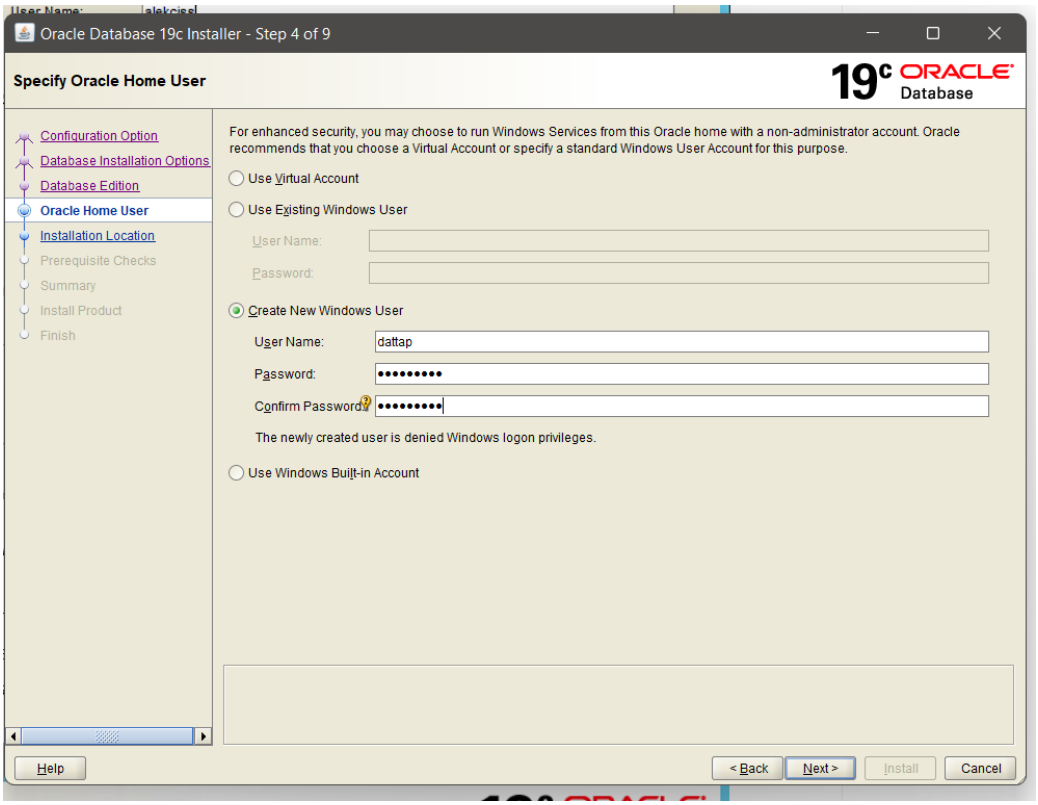
INSTALLATION:

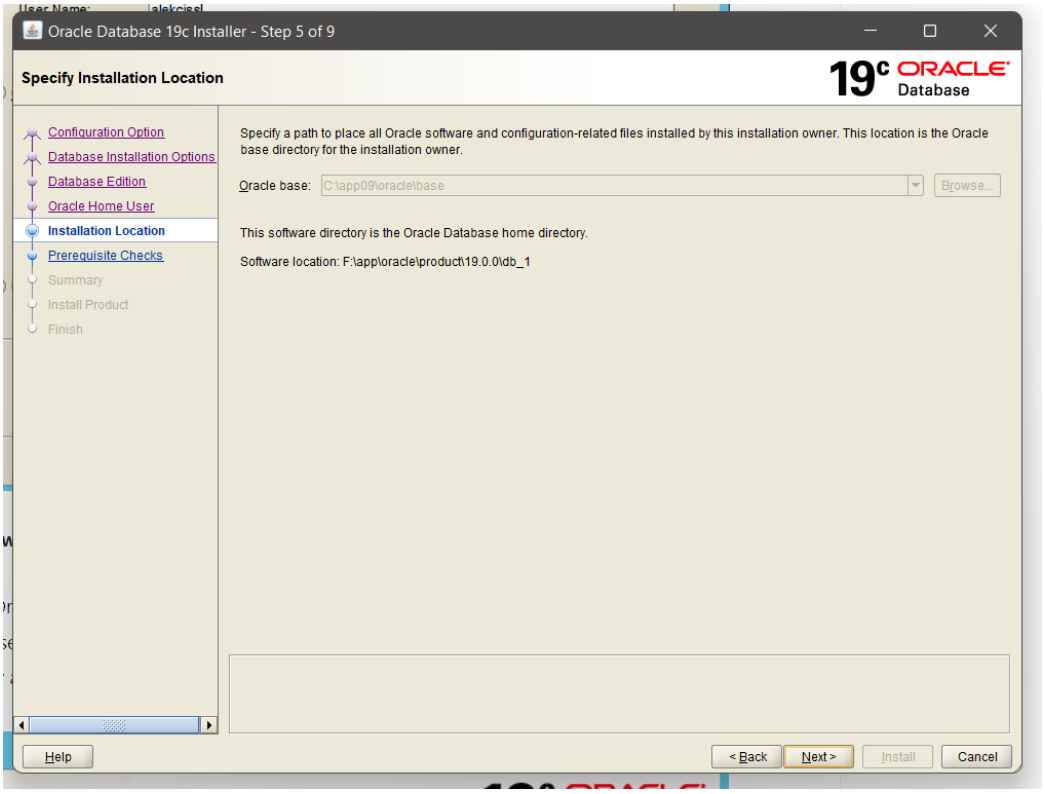
Installing the Oracle 19c Enterprise Edition.

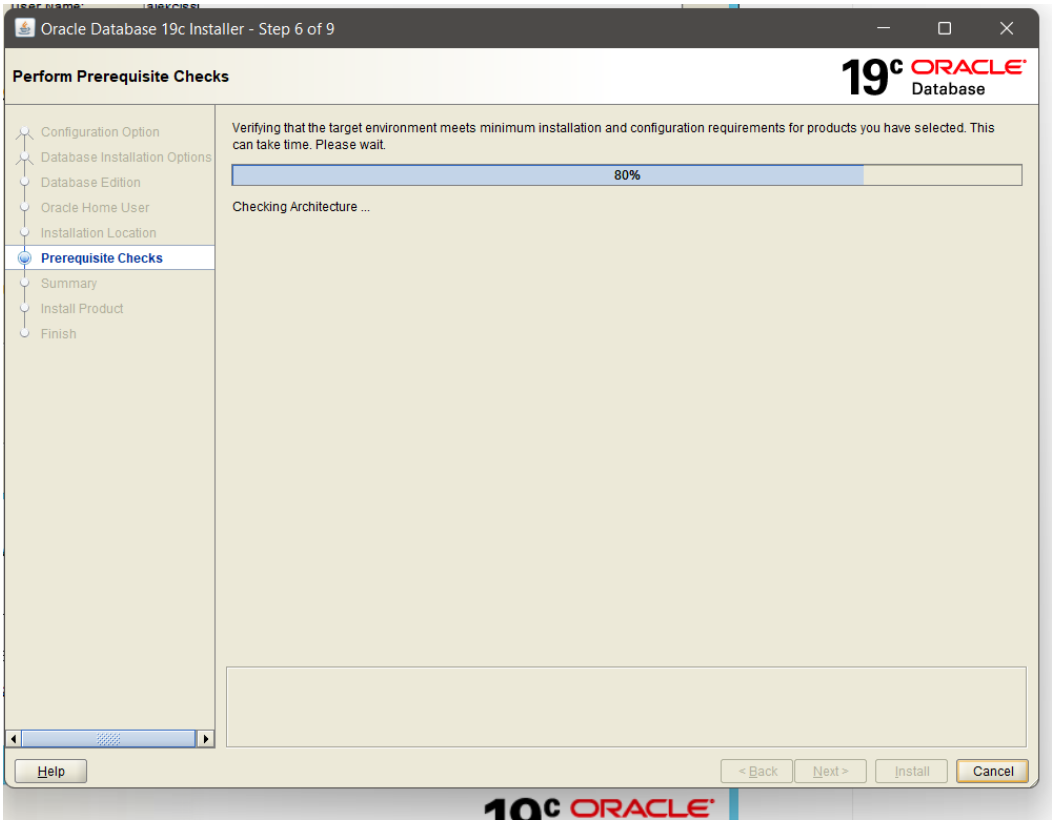


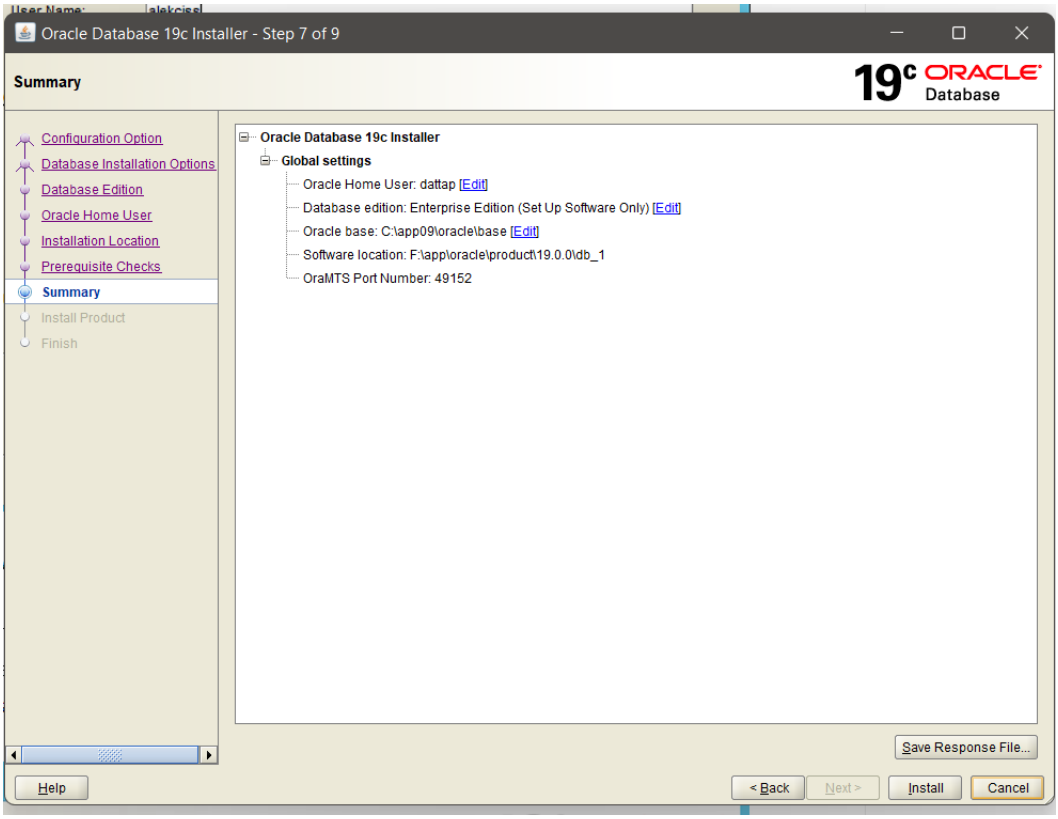

Oracle Database 19c Installer - Step 2 of 9
Select Database Installation Option
19c ORACLE Database
Configuration Option
Database Installation Options
Database Edition
Oracle Home User
Installation Location
Prerequisite Checks
Summary
Install Product
Finish
Select the type of database installation you want to perform.
Single instance database installation
Oracle Real Application Clusters database installation
Help
< Back
Next >
Install
Cancel

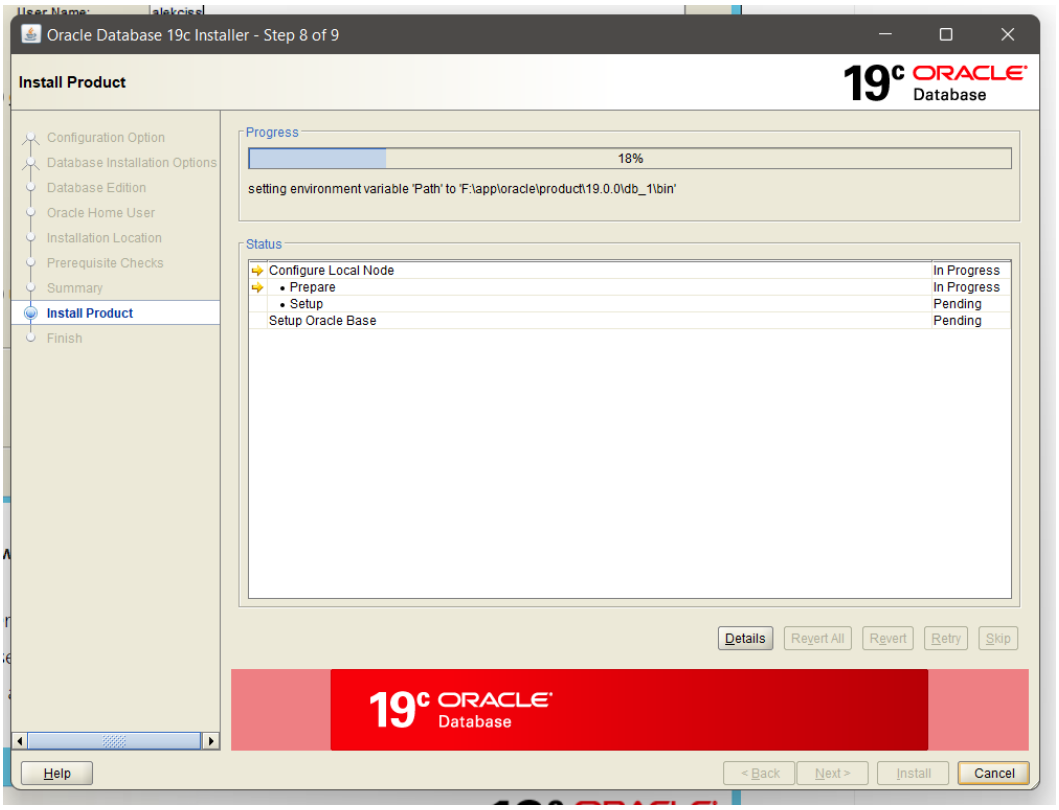

Oracle Database 19c Installer - Step 3 of 9
Select Database Edition
19c ORACLE Database
Configuration Option
Database Installation Options
Database Edition
Oracle Home User
Installation Location
Prerequisite Checks
Summary
Install Product
Finish
Which database edition do you want to install?
Enterprise Edition
Oracle Database 19c Enterprise Edition is a self-managing database that has the scalability, performance, high availability, and security features required to run the most demanding, mission-critical applications.
Standard Edition 2
Oracle Database 19c Standard Edition 2 is a full-featured data management solution ideally suited to the needs of medium-sized businesses.
Help
< Back
Next >
Install
Cancel

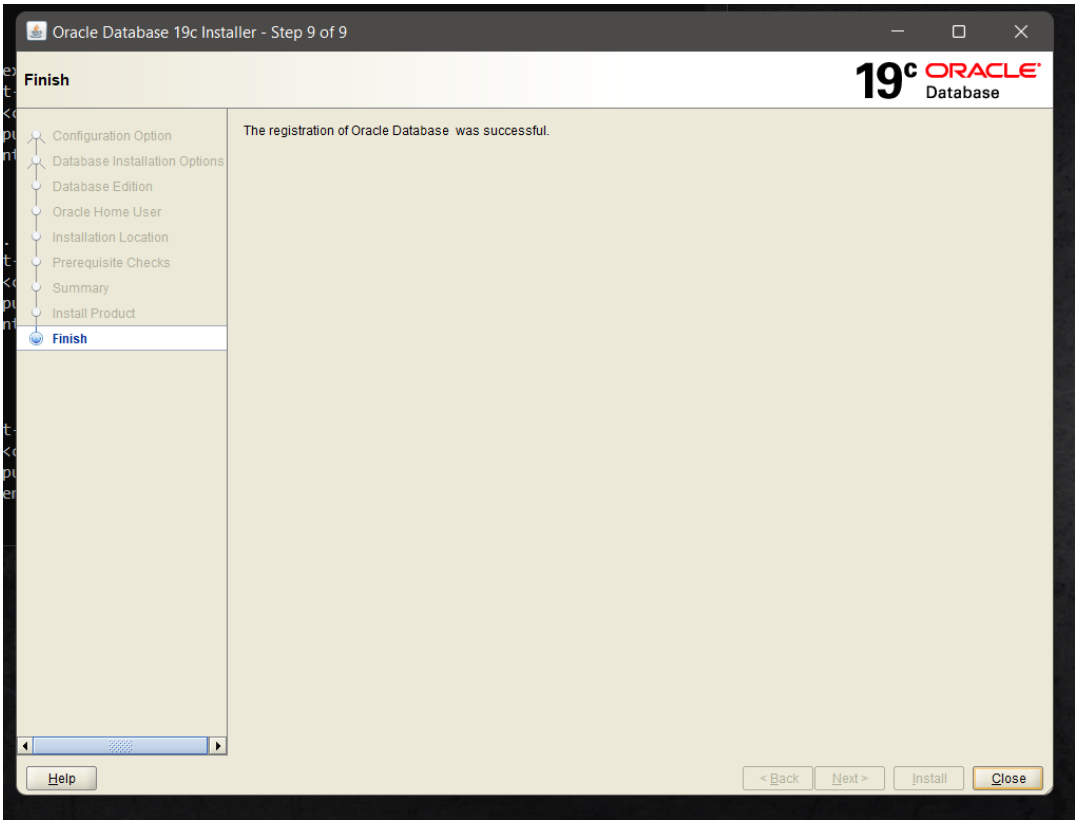

Oracle Database 19c Installer - Step 4 of 9
Specify Oracle Home User
19c ORACLE Database
Configuration Option
Database Installation Options
Database Edition
Oracle Home User
Installation Location
Prerequisite Checks
Summary
Install Product
Finish
For enhanced security, you may choose to run Windows Services from this Oracle home with a non-administrator account. Oracle recommends that you choose a Virtual Account or specify a standard Windows User Account for this purpose.
Use Virtual Account
Use Existing Windows User
User Name:
Password:
Create New Windows User
User Name: dattap
Password:
Confirm Password:
The newly created user is denied Windows logon privileges.
Use Windows Built-in Account
Help
< Back
Next >
Install
Cancel


Oracle Database 19c Installer - Step 5 of 9
Specify Installation Location
19c ORACLE Database
Configuration Option
Database Installation Options
Database Edition
Oracle Home User
Installation Location
Prerequisite Checks
Summary
Install Product
Finish
Specify a path to place all Oracle software and configuration-related files installed by this installation owner. This location is the Oracle base directory for the installation owner.
Oracle base: C:\app09\oracle\base
Browse...
This software directory is the Oracle Database home directory.
Software location: F:\app\oracle\product\19.0.0\db_1
Help
< Back
Next >
Install
Cancel


Oracle Database 19c Installer - Step 6 of 9
Perform Prerequisite Checks
19c ORACLE Database
Configuration Option
Database Installation Options
Database Edition
Oracle Home User
Installation Location
Prerequisite Checks
Summary
Install Product
Finish
Verifying that the target environment meets minimum installation and configuration requirements for products you have selected. This can take time. Please wait.
80%
Checking Architecture ...
Help
< Back
Next >
Install
Cancel

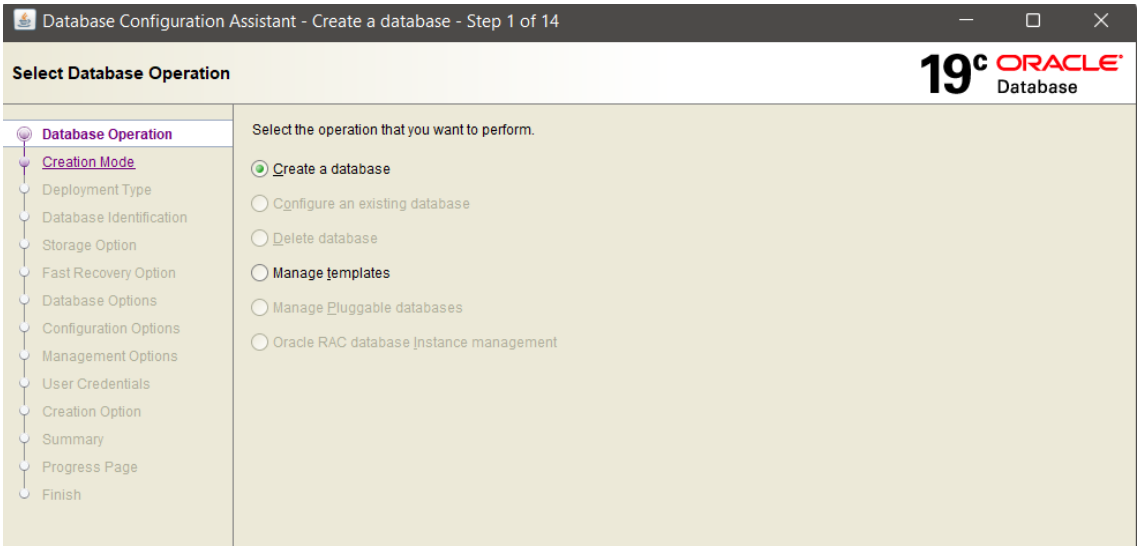

Oracle Database 19c Installer - Step 7 of 9
Summary
19c ORACLE Database
Configuration Option
Database Installation Options
Database Edition
Oracle Home User
Installation Location
Prerequisite Checks
Summary
Install Product
Finish
Oracle Database 19c Installer
Global settings
Oracle Home User: dattap [Edit]
Database edition: Enterprise Edition (Set Up Software Only) [Edit]
Oracle base: C:\app09\oracle\base [Edit]
Software location: F:\app\oracle\product\19.0.0\db_1
OraMTS Port Number: 49152
Save Response File...
Help
< Back
Next >
Install
Cancel

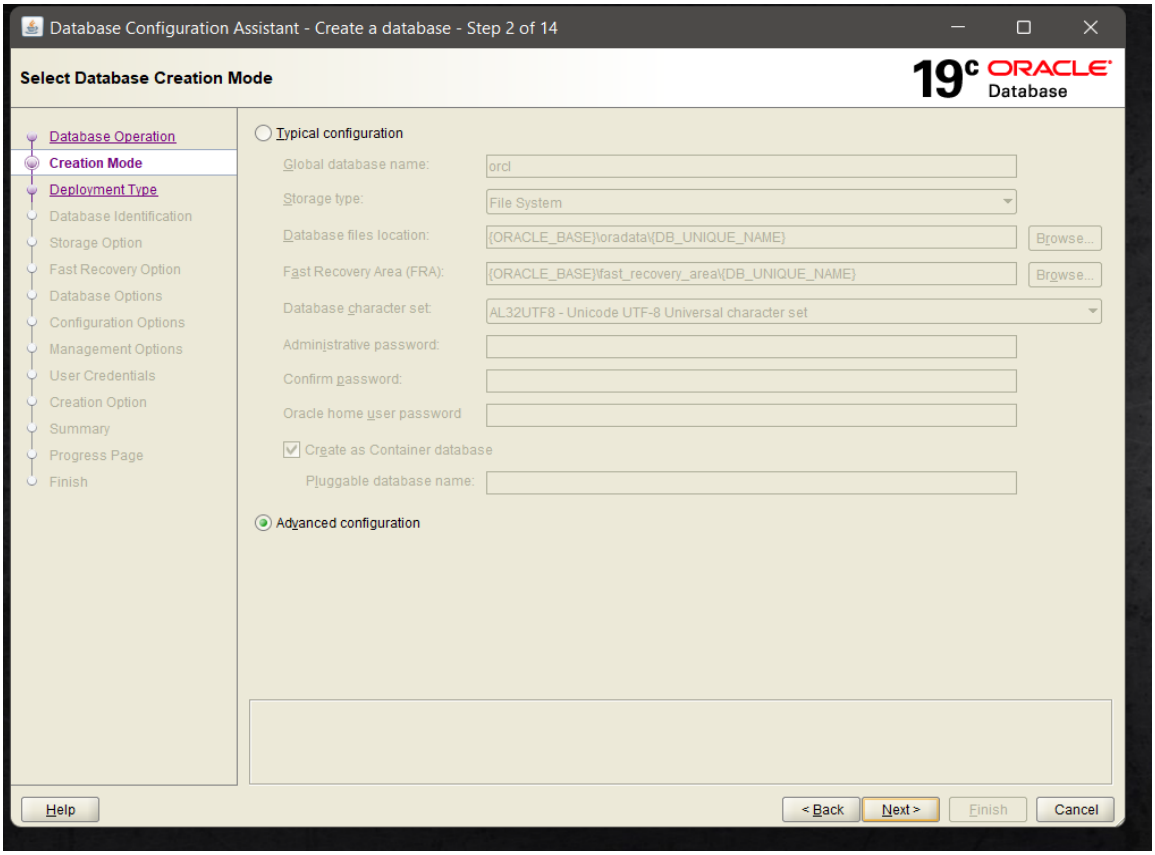

Oracle Database 19c Installer - Step 8 of 9
Install Product
19c ORACLE Database
Configuration Option
Database Installation Options
Database Edition
Oracle Home User
Installation Location
Prerequisite Checks
Summary
Install Product
Finish
Progress
18%
setting environment variable 'Path' to 'F:\app\oracle\product\19.0.0\db_1\bin'
Status
Configure Local Node
In Progress
Prepare
In Progress
Setup
Pending
Setup Oracle Base
Pending
Details
Revert All
Revert
Retry
Skip
19c ORACLE Database
Help
< Back
Next >
Install
Cancel

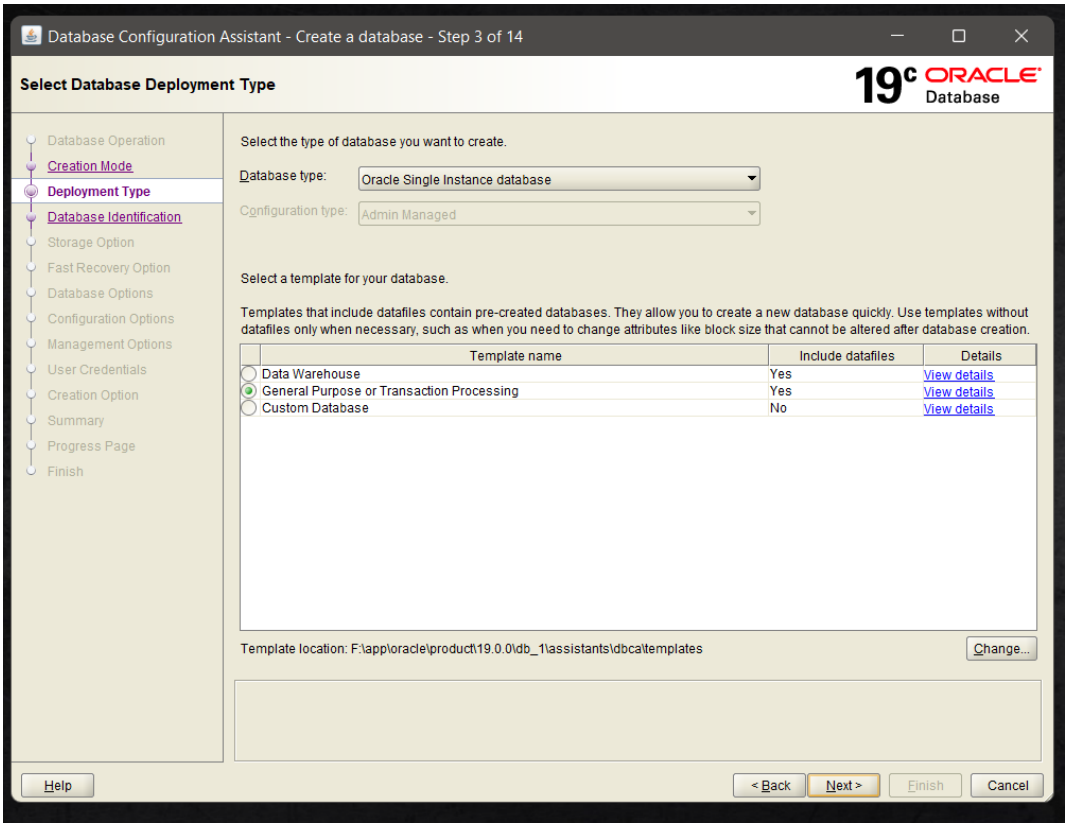

Oracle Database 19c Installer - Step 9 of 9
Finish
19c ORACLE Database
Configuration Option
Database Installation Options
Database Edition
Oracle Home User
Installation Location
Prerequisite Checks
Summary
Install Product
Finish
The registration of Oracle Database was successful.
Help
< Back
Next >
Install
Close

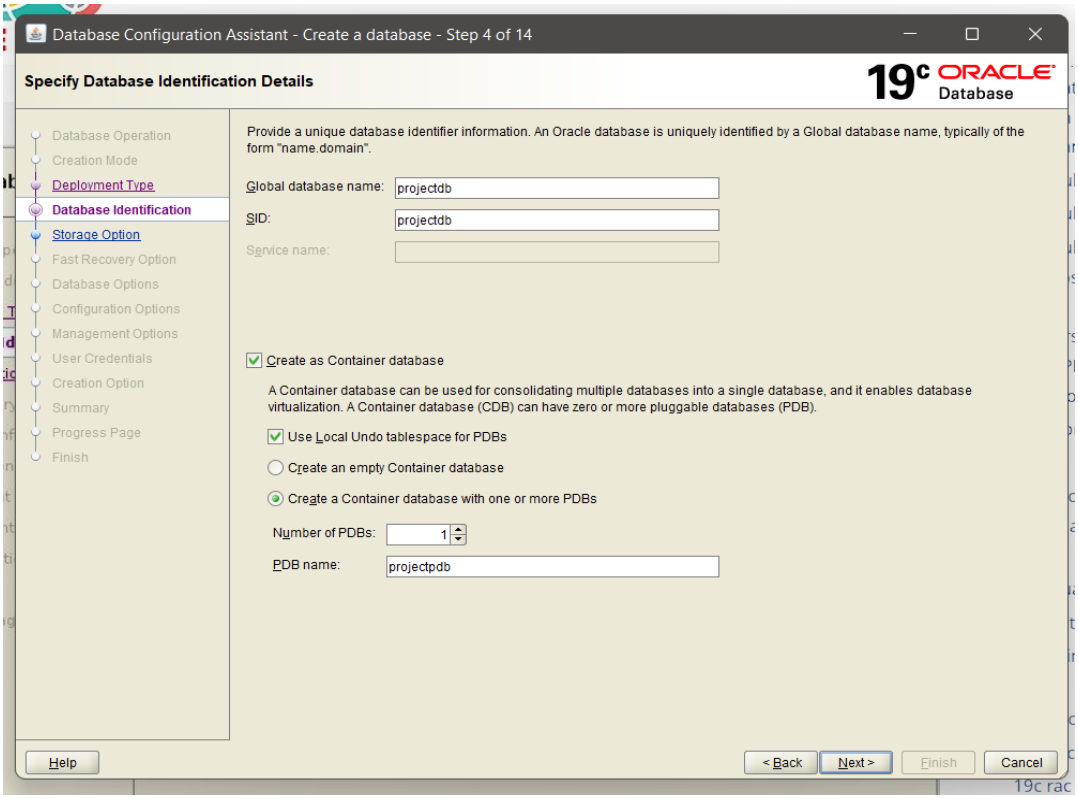
CREATING DATABASE:

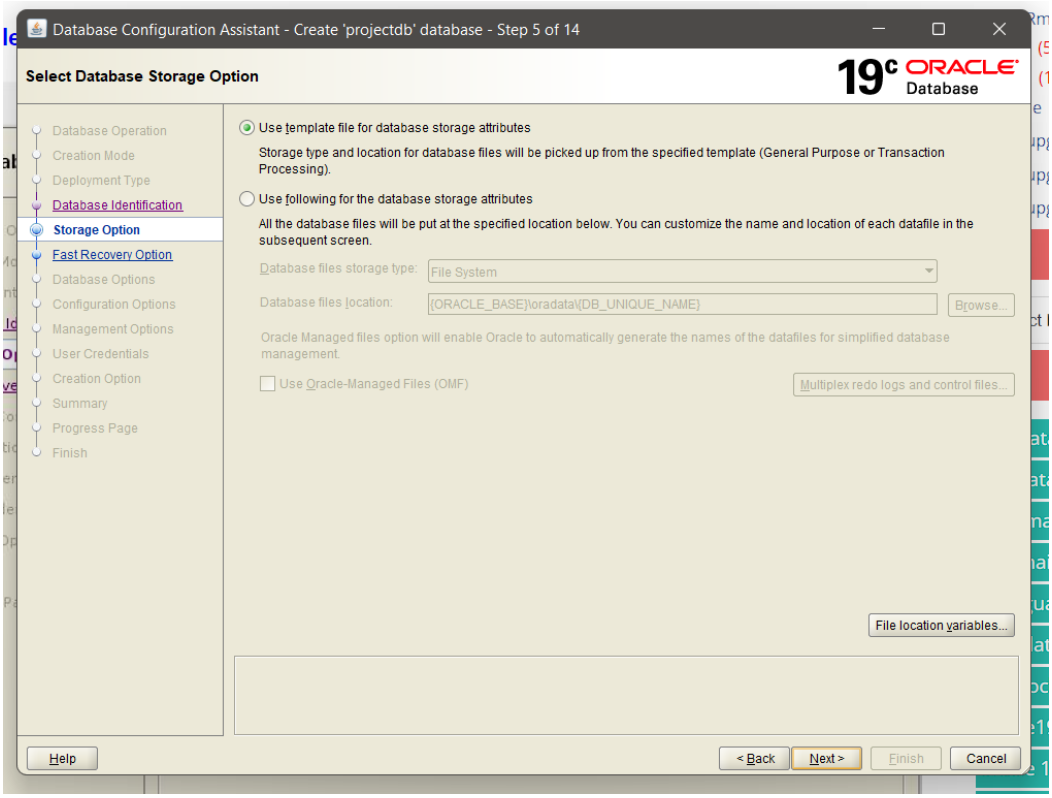
USING DBCA TO CREATE A DATABASE

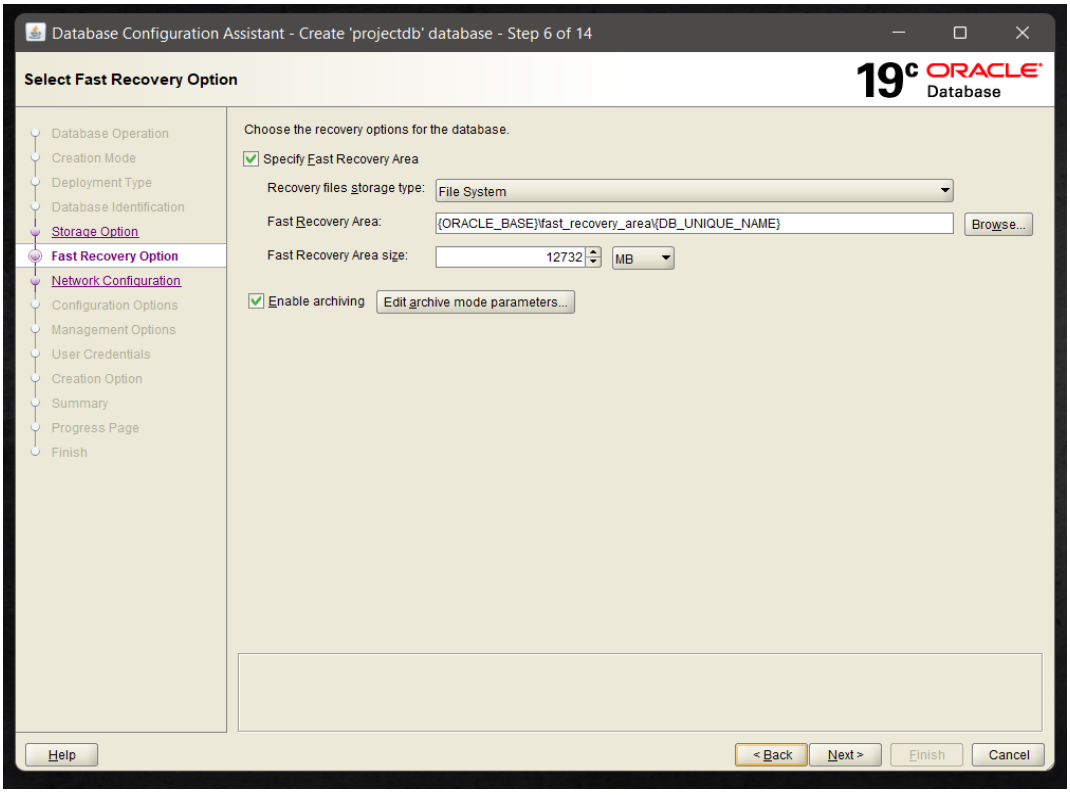


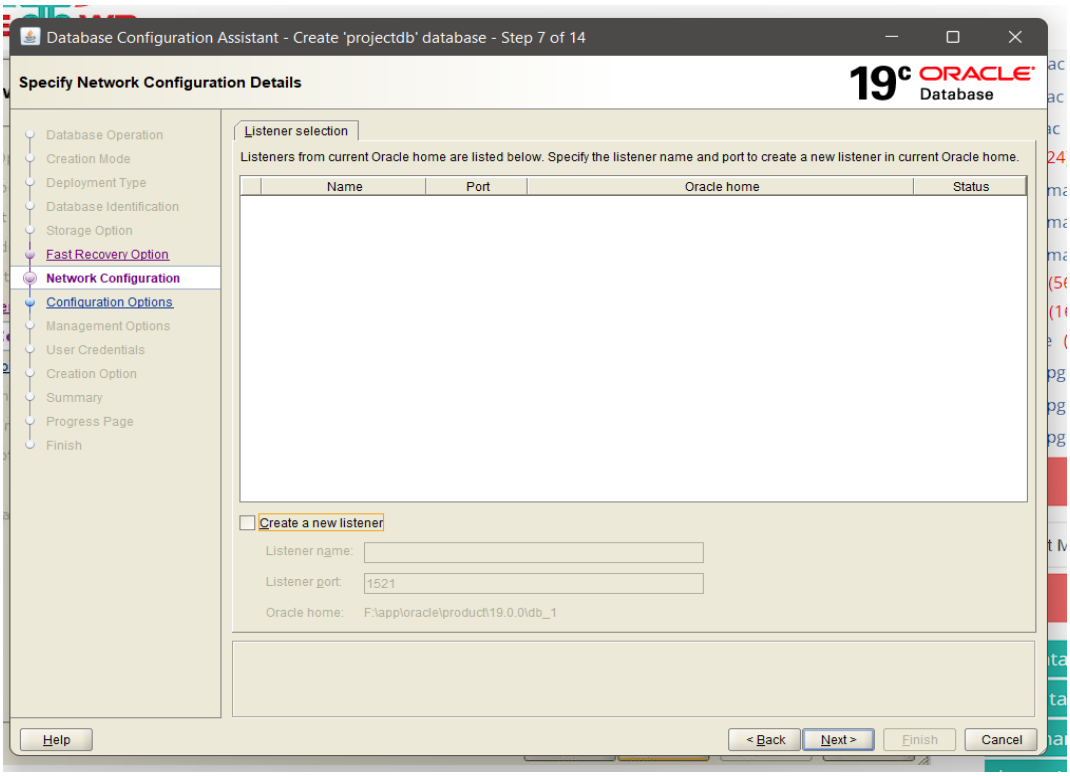


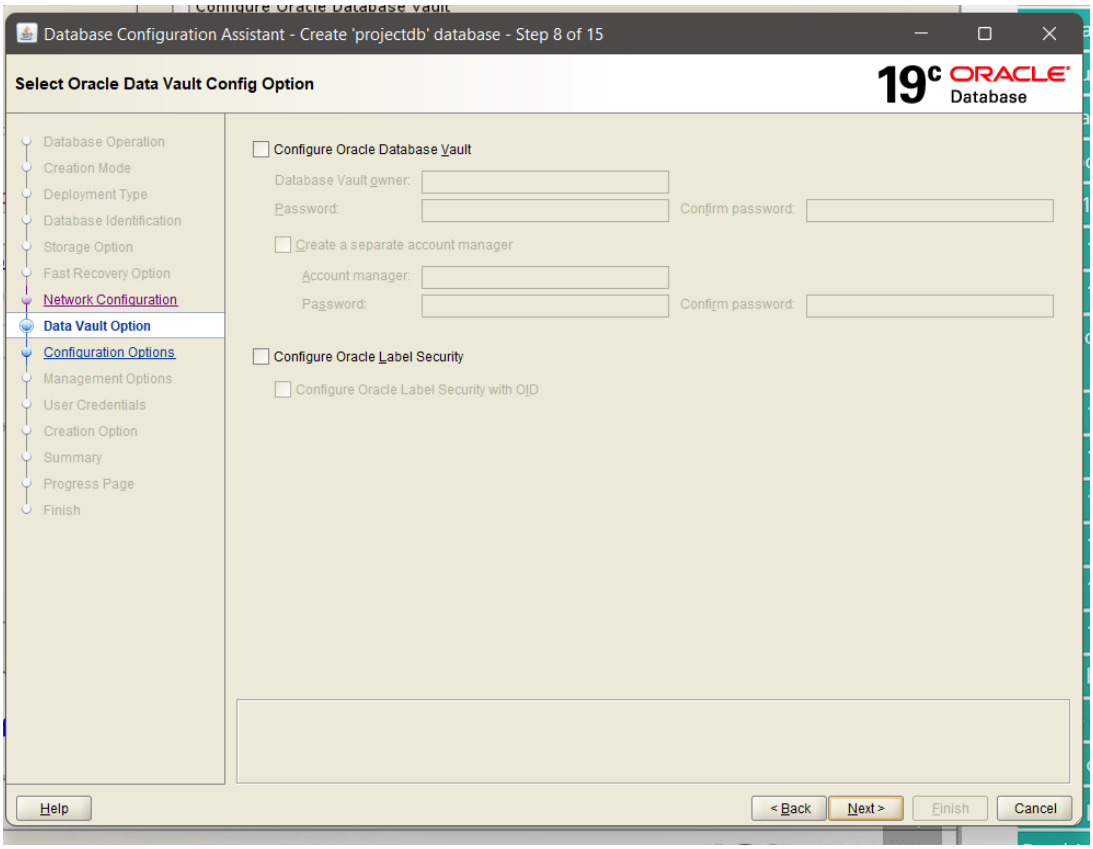

Database Configuration Assistant - Create a database - Step 3 of 14
Select Database Deployment Type
19c ORACLE Database
Database Operation
Creation Mode
Deployment Type
Database Identification
Storage Option
Fast Recovery Option
Database Options
Configuration Options
Management Options
User Credentials
Creation Option
Summary
Progress Page
Finish
Select the type of database you want to create.
Database type: Oracle Single Instance database
Configuration type: Admin Managed
Select a template for your database.
Templates that include datafiles contain pre-created databases. They allow you to create a new database quickly. Use templates without datafiles only when necessary, such as when you need to change attributes like block size that cannot be altered after database creation.
Template name
Include datafiles
Details
Data Warehouse Yes View details
General Purpose or Transaction Processing Yes View details
Custom Database No View details
Template location: F:\app\oracle\product\19.0.0\db_1\assistants\dbca\templates
Change...
Help
< Back
Next >
Finish
Cancel

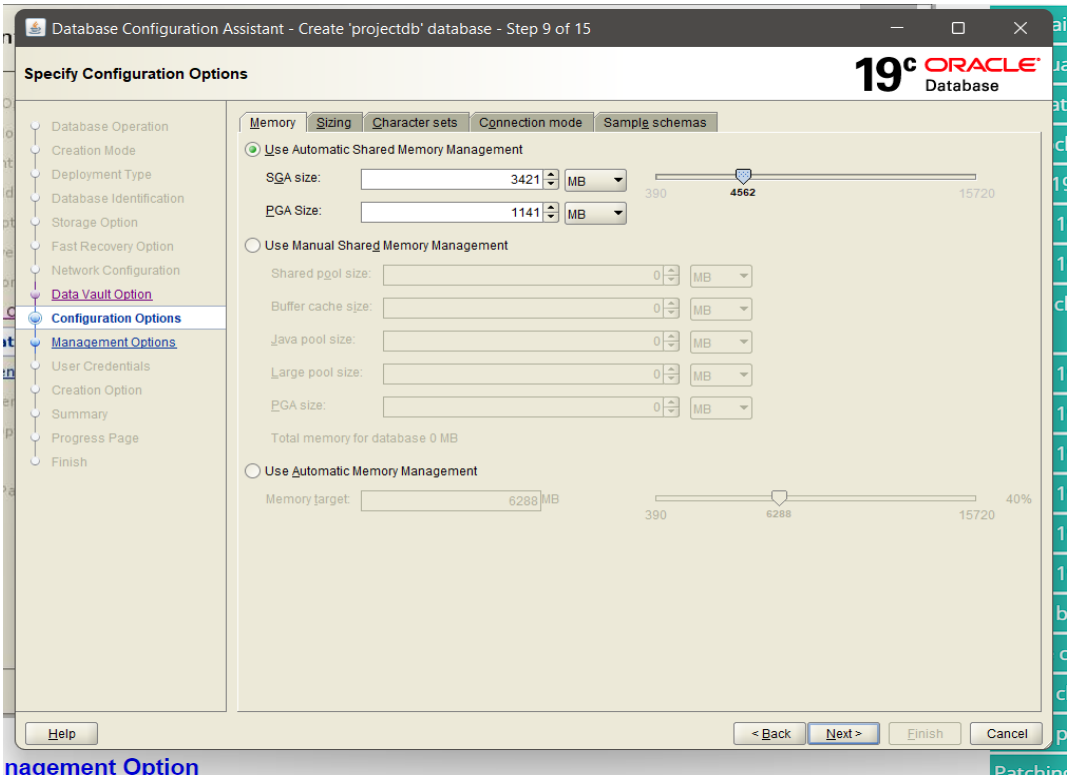

Database Configuration Assistant - Create a database - Step 4 of 14
Specify Database Identification Details
19c ORACLE Database
Database Operation
Creation Mode
Deployment Type
Database Identification
Storage Option
Fast Recovery Option
Database Options
Configuration Options
Management Options
User Credentials
Creation Option
Summary
Progress Page
Finish
Provide a unique database identifier information. An Oracle database is uniquely identified by a Global database name, typically of the form "name.domain".
Global database name: projectdb
SID: projectdb
Service name:
Create as Container database
A Container database can be used for consolidating multiple databases into a single database, and it enables database virtualization. A Container database (CDB) can have zero or more pluggable databases (PDB).
Use Local Undo tablespace for PDBs
Create an empty Container database
Create a Container database with one or more PDBs
Number of PDBs: 1
PDB name: projectpdb
Help
< Back
Next >
Finish
Cancel

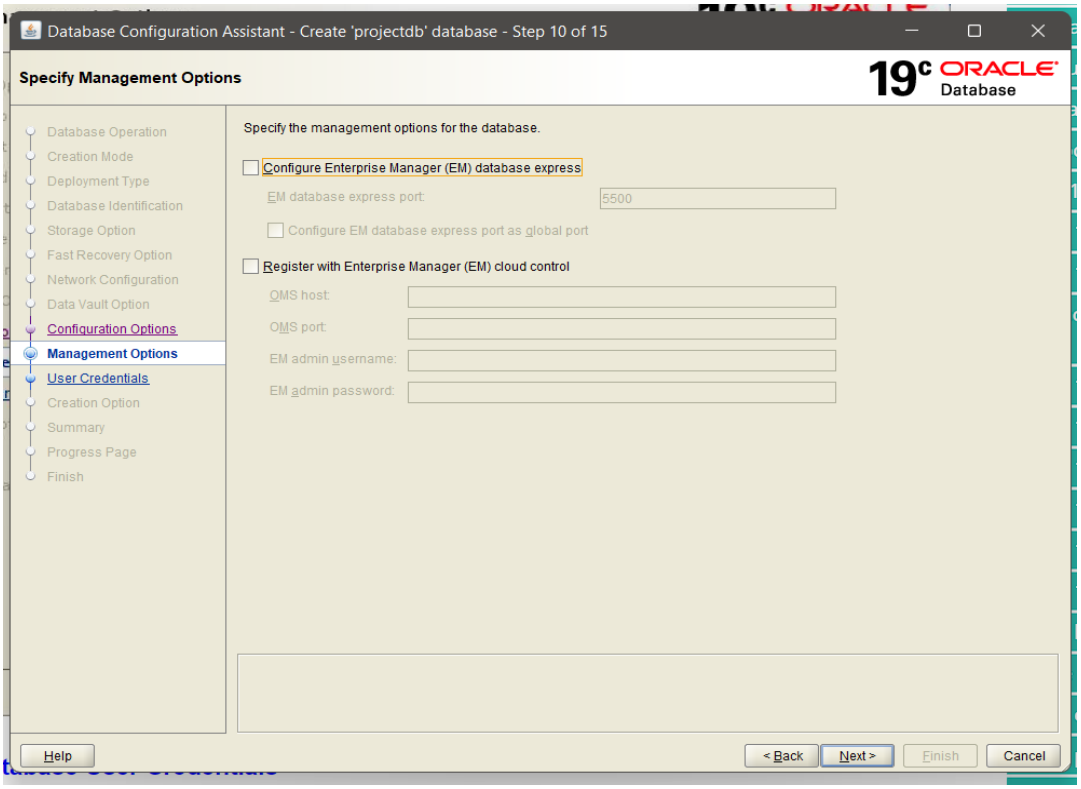

Database Configuration Assistant - Create 'projectdb' database - Step 5 of 14
Select Database Storage Option
19c ORACLE Database
Database Operation
Creation Mode
Deployment Type
Database Identification
Storage Option
Fast Recovery Option
Database Options
Configuration Options
Management Options
User Credentials
Creation Option
Summary
Progress Page
Finish
Use template file for database storage attributes
Storage type and location for database files will be picked up from the specified template (General Purpose or Transaction Processing).
Use following for the database storage attributes
All the database files will be put at the specified location below. You can customize the name and location of each datafile in the subsequent screen.
Database files storage type:
File System
Database files location:
{ORACLE_BASE}\oradata\{DB_UNIQUE_NAME}
Browse...
Oracle Managed files option will enable Oracle to automatically generate the names of the datafiles for simplified database management.
Use Oracle-Managed Files (OMF)
Multiplex redo logs and control files...
File location variables...
Help
< Back
Next >
Finish
Cancel

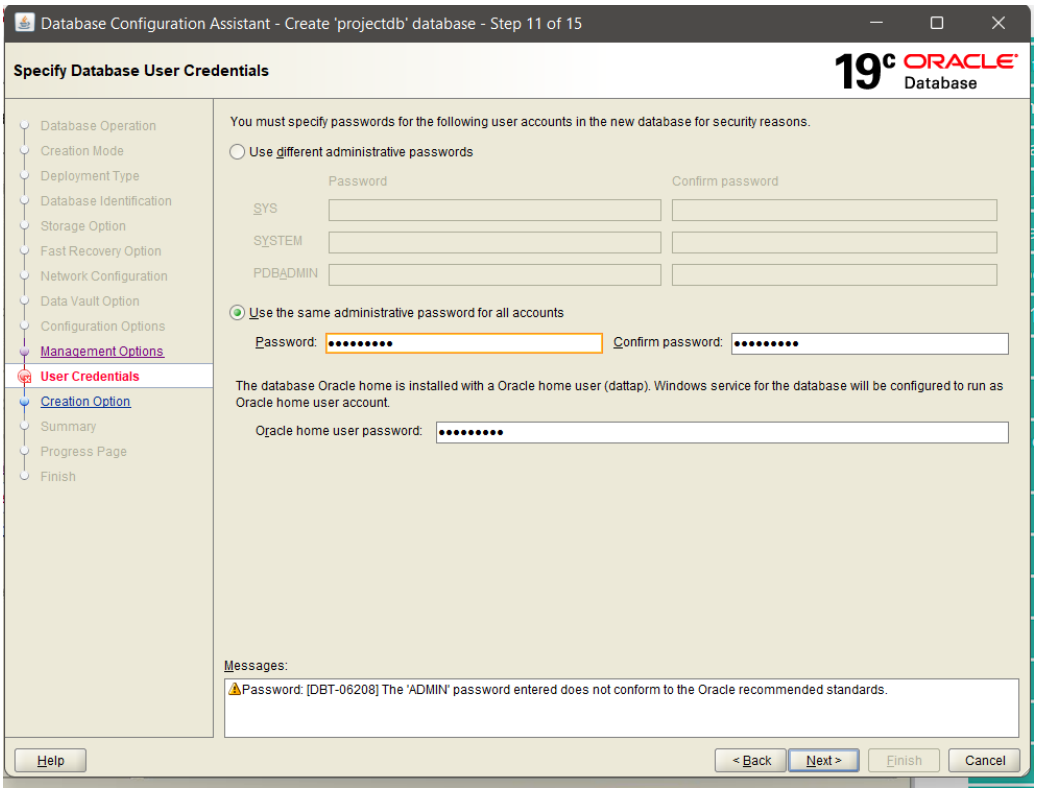

Database Configuration Assistant - Create 'projectdb' database - Step 6 of 14
Select Fast Recovery Option
19c ORACLE Database
Database Operation
Creation Mode
Deployment Type
Database Identification
Storage Option
Fast Recovery Option
Network Configuration
Configuration Options
Management Options
User Credentials
Creation Option
Summary
Progress Page
Finish
Choose the recovery options for the database.
Specify Fast Recovery Area
Recovery files storage type:
File System
Fast Recovery Area:
{ORACLE_BASE}\fast_recovery_area\{DB_UNIQUE_NAME}
Browse...
Fast Recovery Area size:
12732
MB
Enable archiving
Edit archive mode parameters...
Help
< Back
Next >
Finish
Cancel

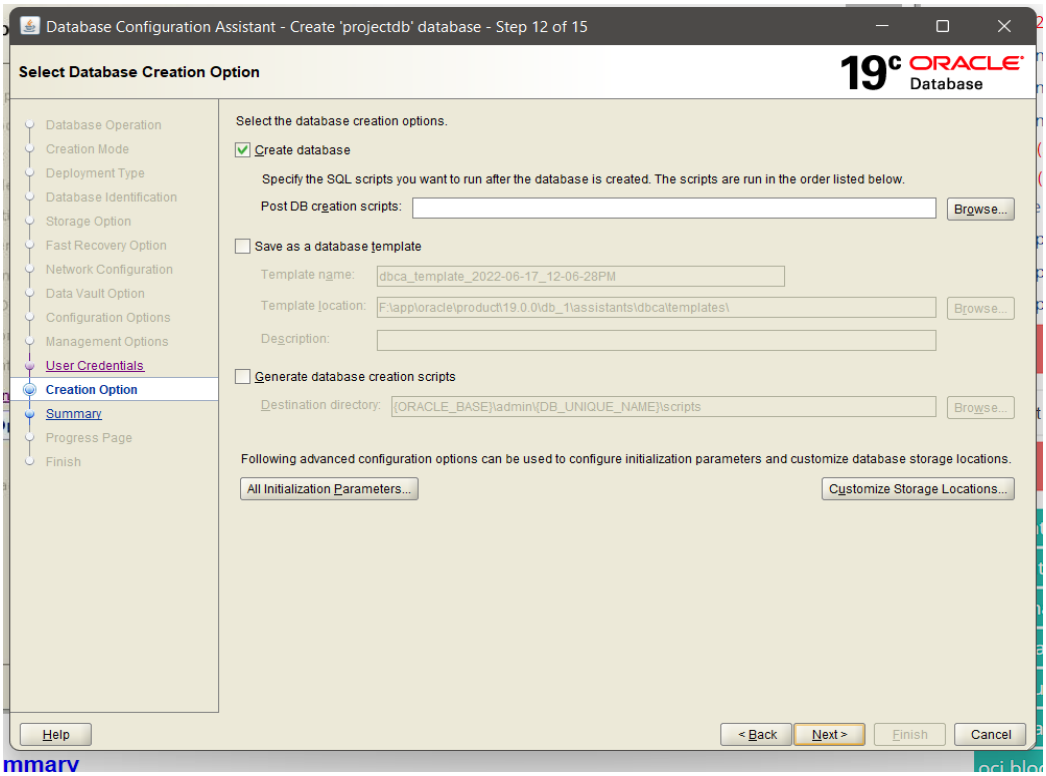

Database Configuration Assistant - Create 'projectdb' database - Step 7 of 14
Specify Network Configuration Details
19c ORACLE Database
Database Operation
Creation Mode
Deployment Type
Database Identification
Storage Option
Fast Recovery Option
Network Configuration
Configuration Options
Management Options
User Credentials
Creation Option
Summary
Progress Page
Finish
Listener selection
Listeners from current Oracle home are listed below. Specify the listener name and port to create a new listener in current Oracle home.
Name
Port
Oracle home
Status
Create a new listener
Listener name:
Listener port:
1521
Oracle home:
F:\app\oracle\product\19.0.0\db_1
Help
< Back
Next >
Finish
Cancel

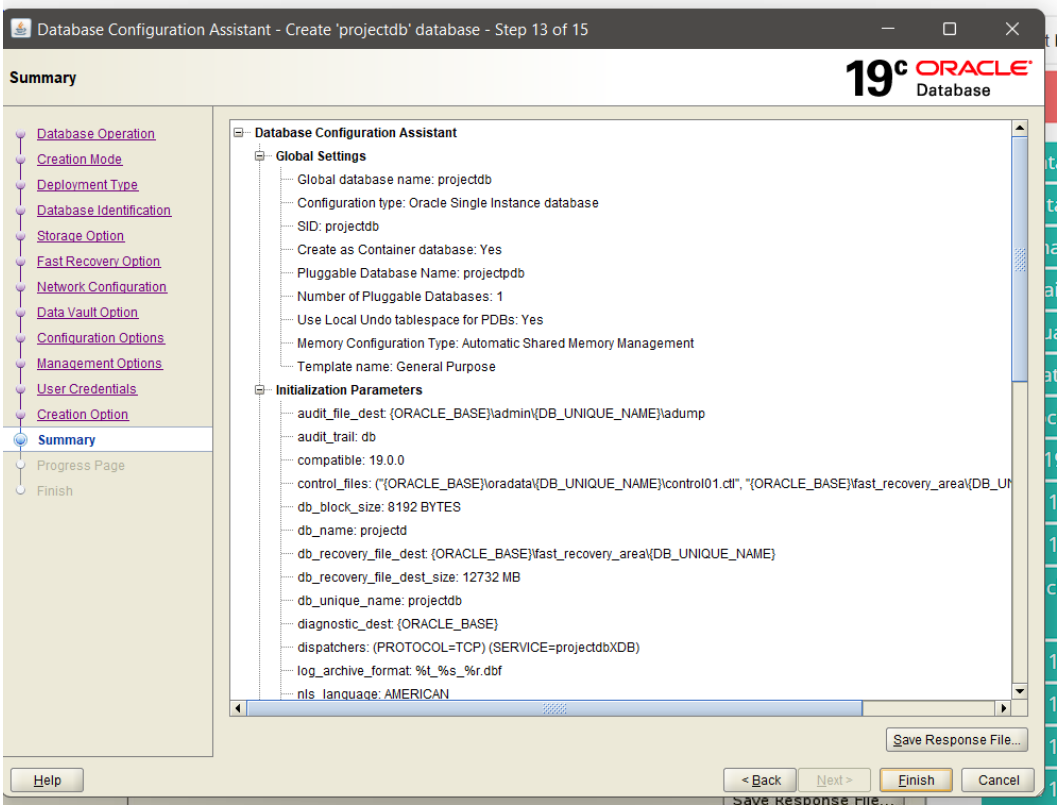

Database Configuration Assistant - Create 'projectdb' database - Step 8 of 15
Select Oracle Data Vault Config Option
19c ORACLE Database
Database Operation
Creation Mode
Deployment Type
Database Identification
Storage Option
Fast Recovery Option
Network Configuration
Data Vault Option
Configuration Options
Management Options
User Credentials
Creation Option
Summary
Progress Page
Finish
Configure Oracle Database Vault
Database Vault owner:
Password:
Confirm password:
Create a separate account manager
Account manager:
Password:
Confirm password:
Configure Oracle Label Security
Configure Oracle Label Security with OID
Help
< Back
Next >
Finish
Cancel

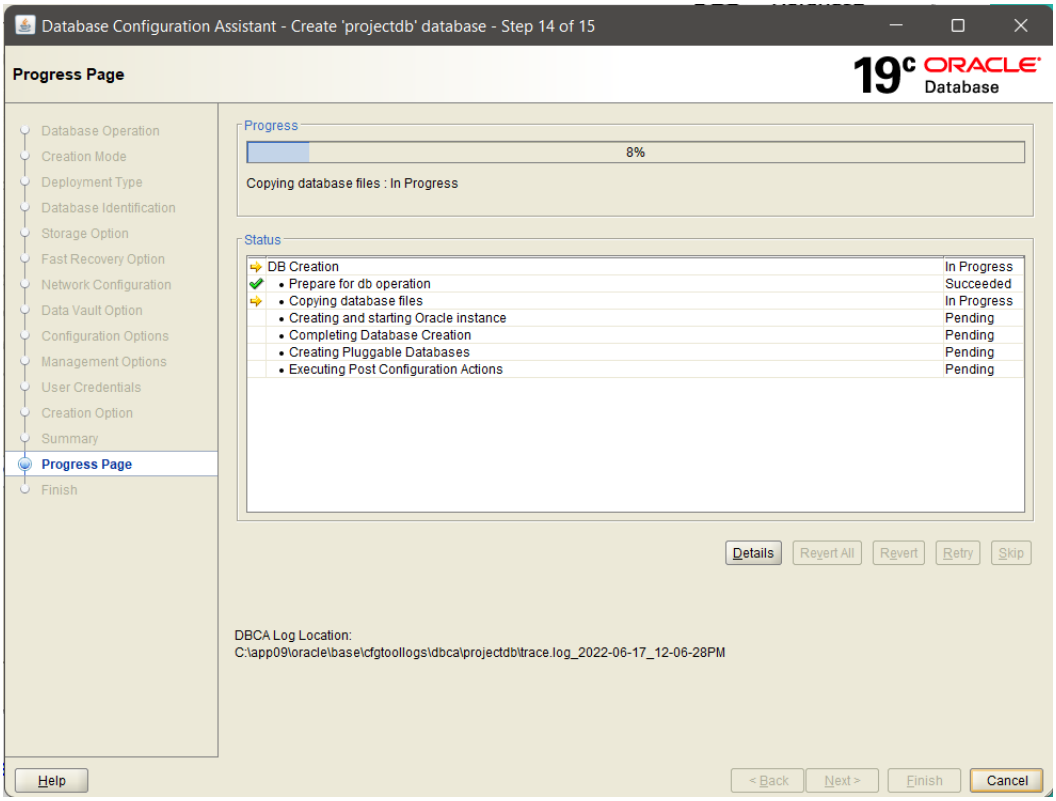

Database Configuration Assistant - Create 'projectdb' database - Step 9 of 15
Specify Configuration Options
19c ORACLE Database
Database Operation
Creation Mode
Deployment Type
Database Identification
Storage Option
Fast Recovery Option
Network Configuration
Data Vault Option
Configuration Options
Management Options
User Credentials
Creation Option
Summary
Progress Page
Finish
Memory
Sizing
Character sets
Connection mode
Sample schemas
Use Automatic Shared Memory Management
SGA size: 3421 MB
PGA Size: 1141 MB
390
4562
15720
Use Manual Shared Memory Management
Shared pool size: 0 MB
Buffer cache size: 0 MB
Java pool size: 0 MB
Large pool size: 0 MB
PGA size: 0 MB
Total memory for database 0 MB
Use Automatic Memory Management
Memory target: 6288 MB
390
6288
15720
40%
Help
< Back
Next >
Finish
Cancel

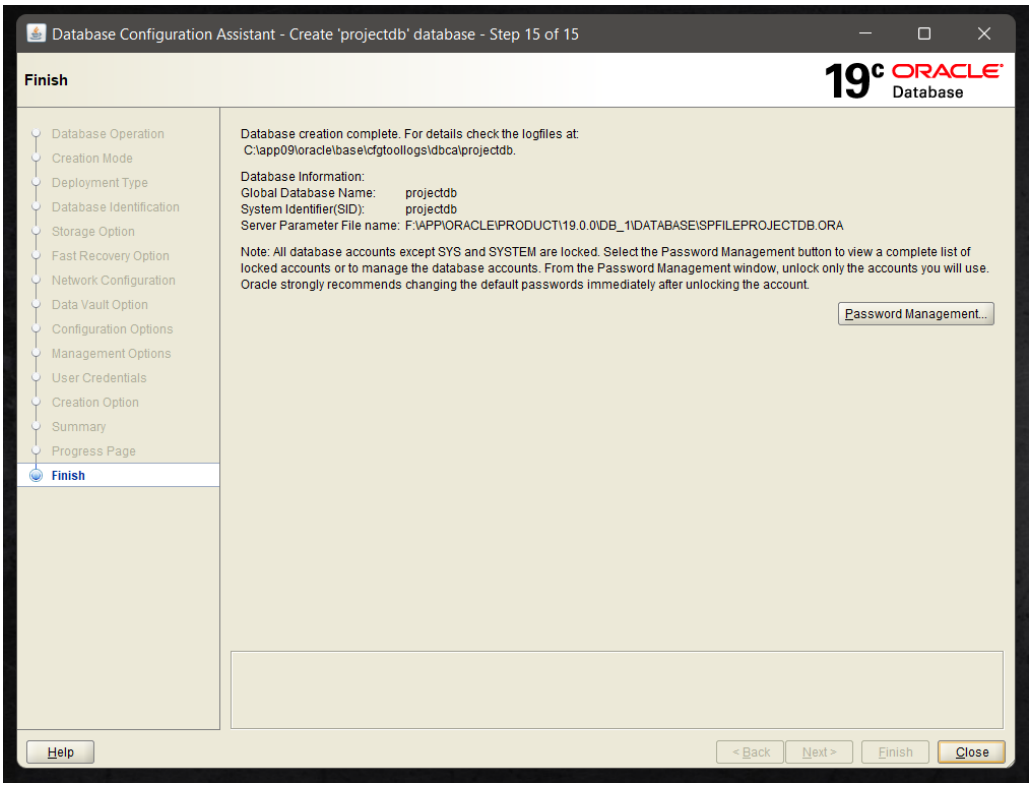

Database Configuration Assistant - Create 'projectdb' database - Step 10 of 15
Specify Management Options
19c ORACLE Database
Database Operation
Creation Mode
Deployment Type
Database Identification
Storage Option
Fast Recovery Option
Network Configuration
Data Vault Option
Configuration Options
Management Options
User Credentials
Creation Option
Summary
Progress Page
Finish
Specify the management options for the database.
Configure Enterprise Manager (EM) database express
EM database express port: 5500
Configure EM database express port as global port
Register with Enterprise Manager (EM) cloud control
OMS host:
OMS port:
EM admin username:
EM admin password:
Help
< Back
Next >
Finish
Cancel

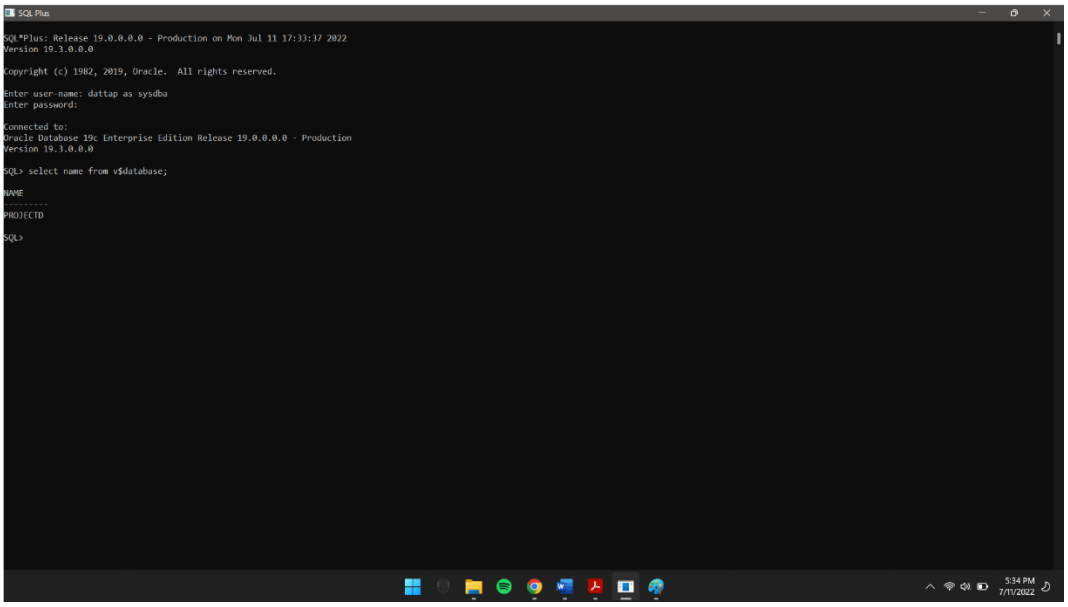

Database Configuration Assistant - Create 'projectdb' database - Step 11 of 15
Specify Database User Credentials
19c ORACLE Database
Database Operation
Creation Mode
Deployment Type
Database Identification
Storage Option
Fast Recovery Option
Network Configuration
Data Vault Option
Configuration Options
Management Options
User Credentials
Creation Option
Summary
Progress Page
Finish
You must specify passwords for the following user accounts in the new database for security reasons.
Use different administrative passwords
Password
Confirm password
SYS
SYSTEM
PDBADMIN
Use the same administrative password for all accounts
Password:
Confirm password:
The database Oracle home is installed with a Oracle home user (dattap). Windows service for the database will be configured to run as Oracle home user account.
Oracle home user password:
Messages:
Password: [DBT-06208] The 'ADMIN' password entered does not conform to the Oracle recommended standards.
Help
< Back
Next >
Finish
Cancel


Database Configuration Assistant - Create 'projectdb' database - Step 12 of 15
Select Database Creation Option
19c ORACLE Database
Database Operation
Creation Mode
Deployment Type
Database Identification
Storage Option
Fast Recovery Option
Network Configuration
Data Vault Option
Configuration Options
Management Options
User Credentials
Creation Option
Summary
Progress Page
Finish
Select the database creation options.
Create database
Specify the SQL scripts you want to run after the database is created. The scripts are run in the order listed below.
Post DB creation scripts:
Browse...
Save as a database template
Template name:
dbca_template_2022-06-17_12-06-28PM
Template location:
F:\app\oracle\product\19.0.0\db_1\assistants\dbca\templates\
Description:
Generate database creation scripts
Destination directory:
{ORACLE_BASE}\admin\{DB_UNIQUE_NAME}\scripts
Following advanced configuration options can be used to configure initialization parameters and customize database storage locations.
All Initialization Parameters...
Customize Storage Locations...
Help
< Back
Next >
Finish
Cancel

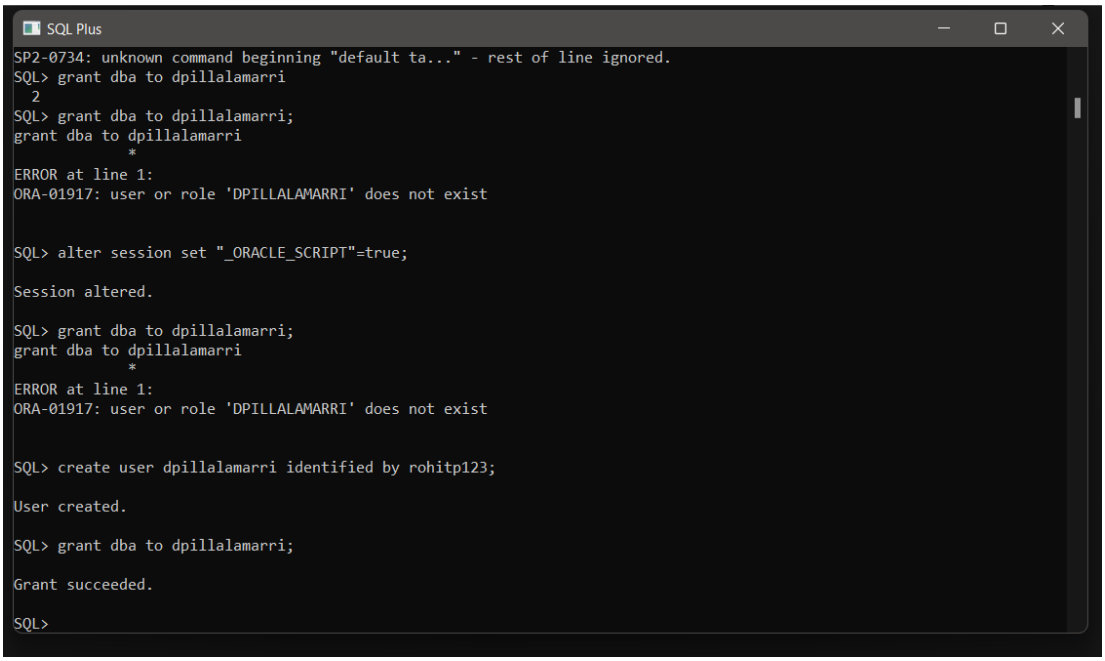

Database Configuration Assistant - Create 'projectdb' database - Step 13 of 15
Summary
19c ORACLE Database
Database Operation
Creation Mode
Deployment Type
Database Identification
Storage Option
Fast Recovery Option
Network Configuration
Data Vault Option
Configuration Options
Management Options
User Credentials
Creation Option
Summary
Progress Page
Finish
Database Configuration Assistant
Global Settings
Global database name: projectdb
Configuration type: Oracle Single Instance database
SID: projectdb
Create as Container database: Yes
Pluggable Database Name: projectpdb
Number of Pluggable Databases: 1
Use Local Undo tablespace for PDBs: Yes
Memory Configuration Type: Automatic Shared Memory Management
Template name: General Purpose
Initialization Parameters
audit_file_dest: {ORACLE_BASE}\admin\{DB_UNIQUE_NAME}\adump
audit_trail: db
compatible: 19.0.0
db_block_size: 8192 BYTES
db_name: projectd
db_recovery_file_dest: {ORACLE_BASE}\fast_recovery_area\{DB_UNIQUE_NAME}
db_recovery_file_dest_size: 12732 MB
db_unique_name: projectdb
diagnostic_dest: {ORACLE_BASE}
dispatchers: (PROTOCOL=TCP) (SERVICE=projectdbXDB)
log_archive_format: %t_%s_%r.dbf
nls_language: AMERICAN
Save Response File...
Help
< Back
Next >
Finish
Cancel


Database Configuration Assistant - Create 'projectdb' database - Step 14 of 15
Progress Page
19c ORACLE Database
Database Operation
Creation Mode
Deployment Type
Database Identification
Storage Option
Fast Recovery Option
Network Configuration
Data Vault Option
Configuration Options
Management Options
User Credentials
Creation Option
Summary
Progress Page
Finish
Progress
8%
Copying database files : In Progress
Status
DB Creation In Progress
• Prepare for db operation Succeeded
• Copying database files In Progress
• Creating and starting Oracle instance Pending
• Completing Database Creation Pending
• Creating Pluggable Databases Pending
• Executing Post Configuration Actions Pending
Details
Revert All
Revert
Retry
Skip
DBCA Log Location:
C:\app09\oracle\base\cfgtoollogs\dbca\projectdb\trace.log_2022-06-17_12-06-28PM
Help
< Back
Next >
Finish
Cancel


Database Configuration Assistant - Create 'projectdb' database - Step 15 of 15
Finish
19c ORACLE Database
Database Operation
Creation Mode
Deployment Type
Database Identification
Storage Option
Fast Recovery Option
Network Configuration
Data Vault Option
Configuration Options
Management Options
User Credentials
Creation Option
Summary
Progress Page
Finish
Database creation complete. For details check the logfiles at:
C:\app09\oracle\base\cfgtoollogs\dbca\projectdb.
Database Information:
Global Database Name: projectdb
System Identifier(SID): projectdb
Server Parameter File name: F:\APP\ORACLE\PRODUCT\19.0.0\DB_1\DATABASE\SPFILEPROJECTDB.ORA
Note: All database accounts except SYS and SYSTEM are locked. Select the Password Management button to view a complete list of locked accounts or to manage the database accounts. From the Password Management window, unlock only the accounts you will use. Oracle strongly recommends changing the default passwords immediately after unlocking the account.
Password Management...
Help
< Back
Next >
Finish
Close


SQL Plus
SQL*Plus: Release 19.0.0.0.0 - Production on Mon Jul 11 17:33:37 2022
Version 19.3.0.0.0
Copyright (c) 1982, 2019, Oracle. All rights reserved.
Enter user-name: dattap as sysdba
Enter password:
Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.3.0.0.0
SQL> select name from v$database;
NAME
PROJECTD
SQL>
5:34 PM
7/11/2022

CREATING A NEW USER AND GRANTING ALL PRIVILEGES TO THAT USER



STEP 2:

- Collect business requirements – meet customers
- Plan and design your application
- Develop ER diagram / data-model – logical view

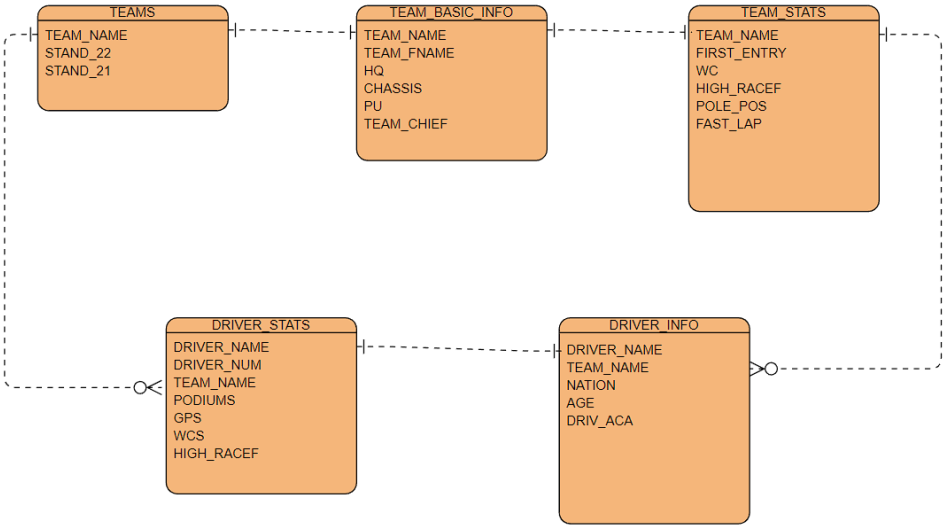
The project which I am doing is based on the sport Formula One.

I have created a database in which I have gathered all the required information from the sport like the team names, team's history in the sport, the current car details, Team chiefs, and the drivers, their backgrounds like the academy in which they graduated, their stats, and their personal data like Nationality, date of birth. I have taken the data from Formula one sport's official website.

Now based on the requirements and gathered data, I have created five tables:

Teams, Team_Stats, Team_Basic_Info, Driver_Stats, Driver_info.

ER DIAGRAM:



DRIVER_NAME = DRIVER NAME

STAND_22 = STANDINGS IN 2022

STAND_21 = STANDINGS IN 2021

TEAM_FNAME = TEAM FULL NAME

HQ = HEADQUARTERS

PU = POWER UNIT OF THE TEAM'S CAR

TEAM_CHIEF = HEAD OF THE TEAM

TEAM_ENTRY = TEAM'S FIRST OFFICIAL ENTRY IN THE SPORT(YEAR)

WC = NUMBER OF WORLD CHAMPIONSHIPS

HIGH_RACEF = HIGHEST RACE FINISH BY THE TEAM

POLE_POS = NUMBER OF POLE POSITIONS BY THE TEAM

FAST_LAP = NUMBER OF FASTEST LAPS AWARDS

DRIVER_NAME = THE NAME OF THE DRIVER

DRIVER_NUM = CAR NUMBER OF THE DRIVER

GPS = NUMBER OF GRAND PRIXS ENTERED BY THE DRIVER

WCS = NUMBER OF WORLD CHAMPIONSHIPS FOR THE DRIVER

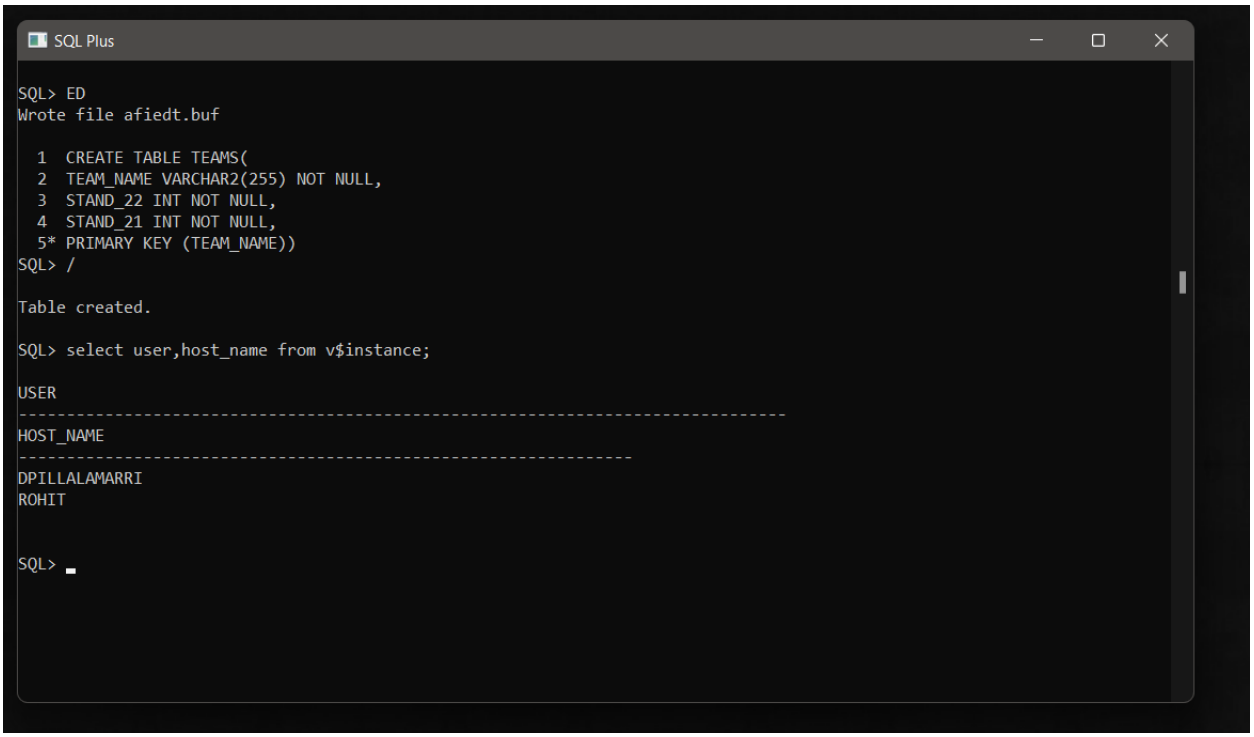
NATION = THE COUNTRY FOR WHICH DRIVER IS DRIVING

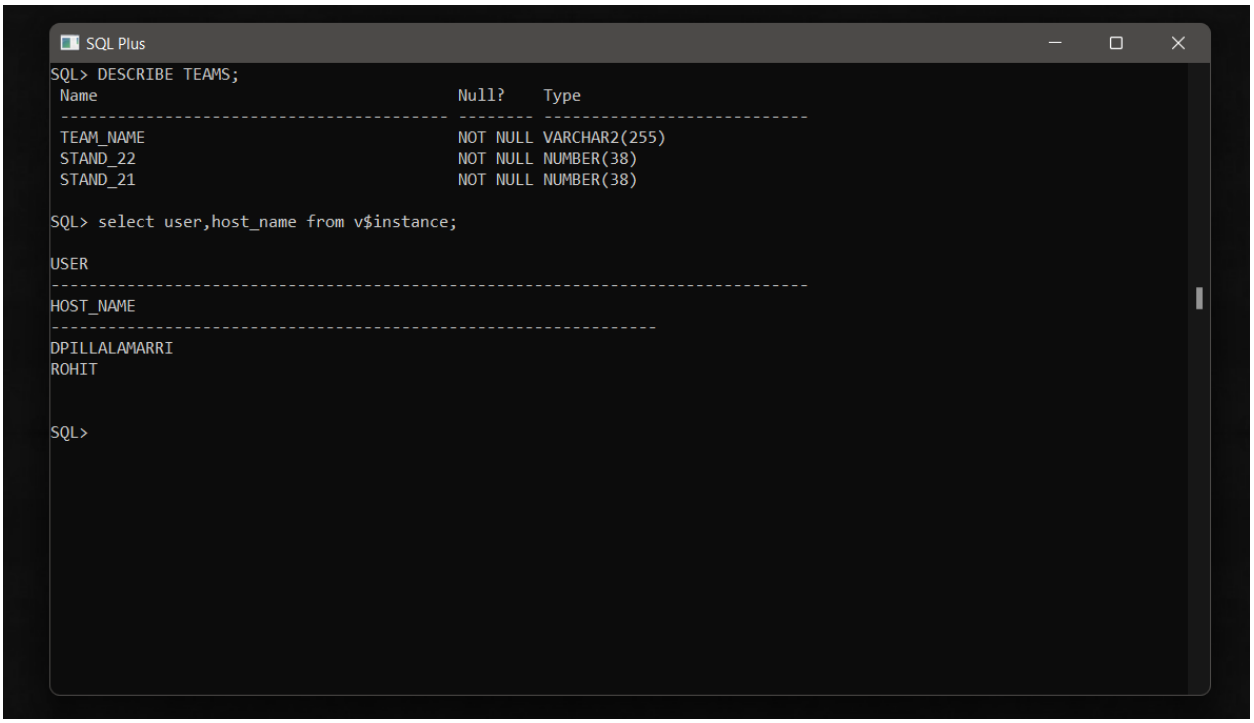
DRIV_ACA = THE DRIVER ACADEMY IN WHICH THE DRIVER GRADUATED

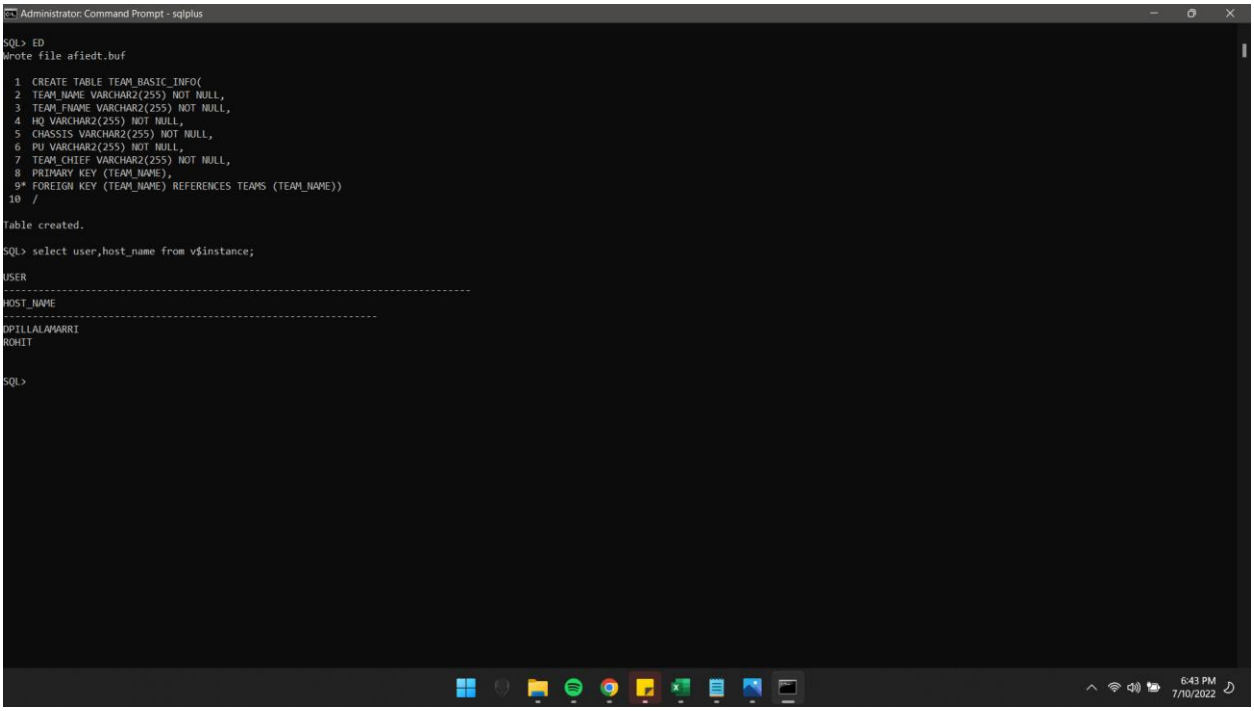
STEP THREE:

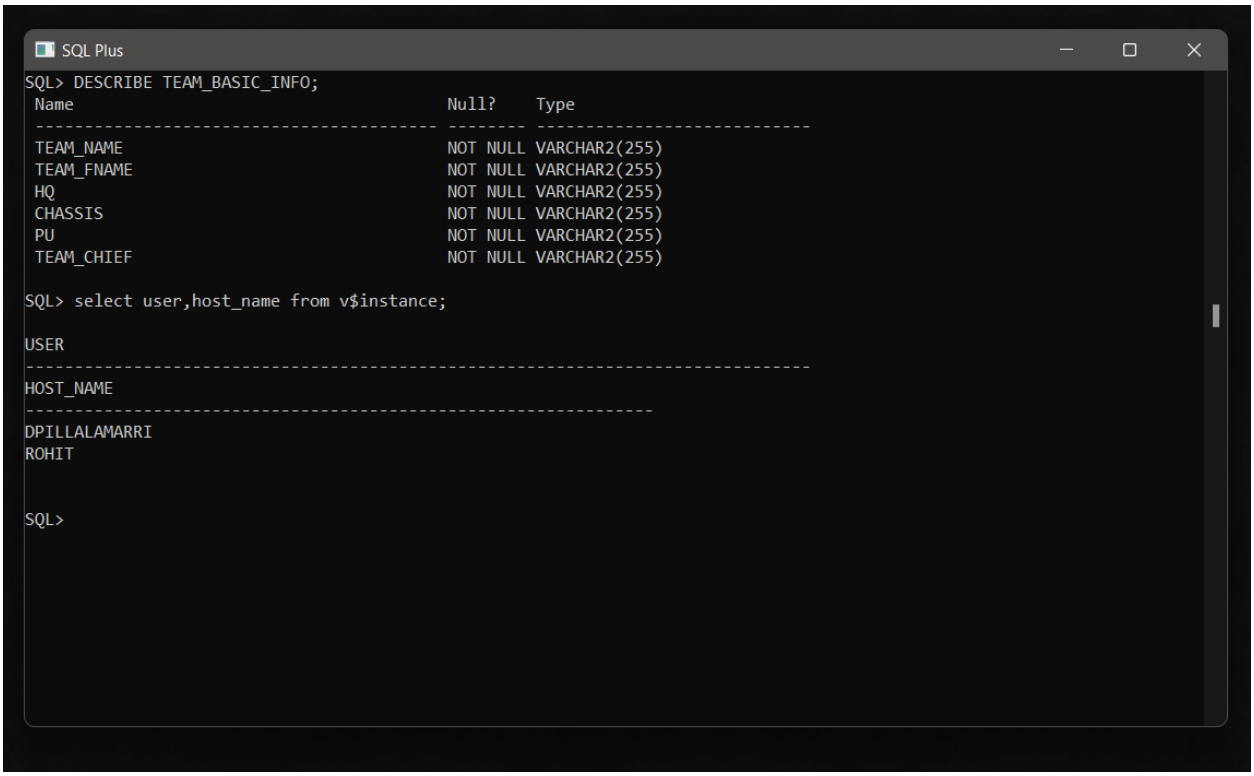
- Start coding your application (create tables, PK, FK and other constraints)
- Create tables (five – minimum)
- Create relations
- Develop constraints (PK, FK, Composite Key, Not Null, Sequences, Index etc.)
- Insert data into tables (15 rows – minimum)

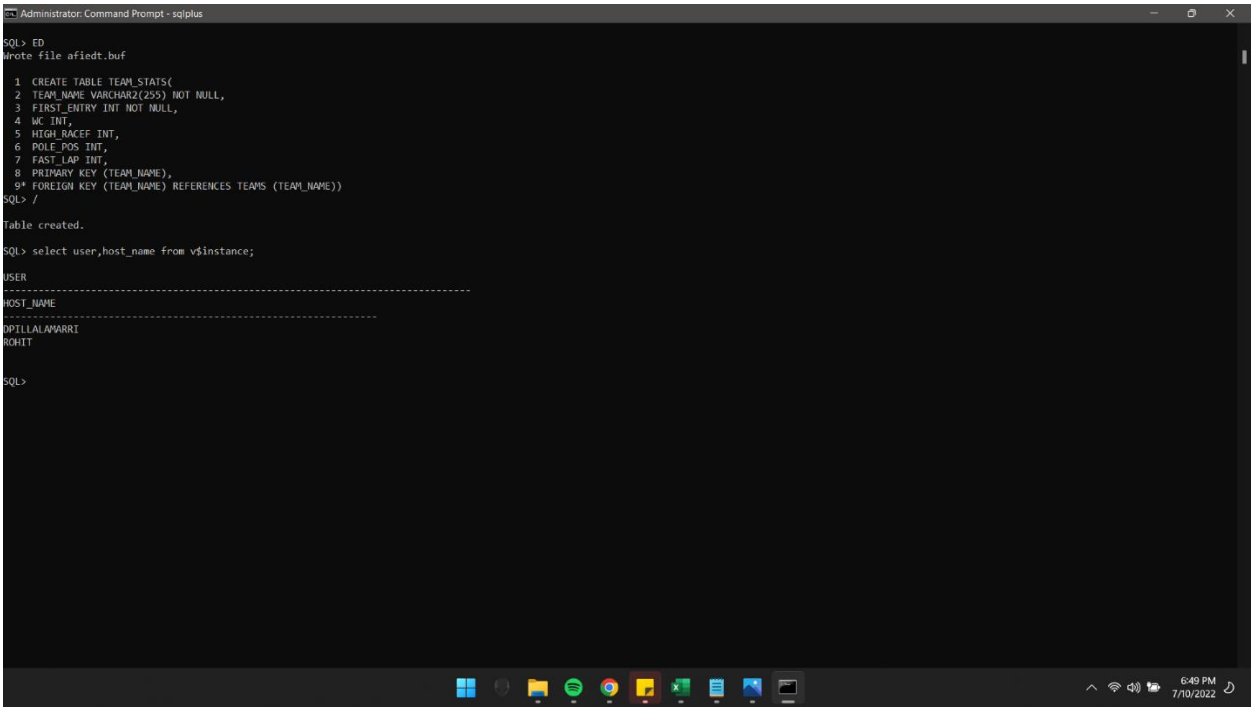
Creating Tables:

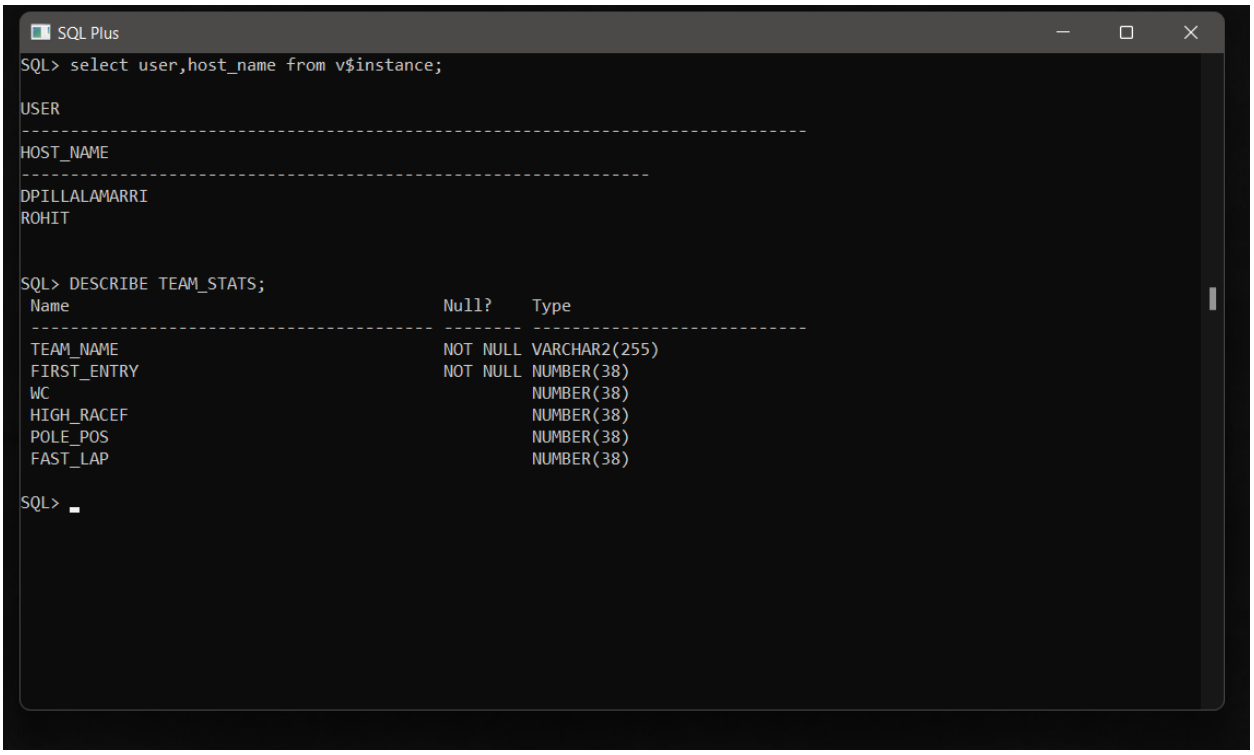


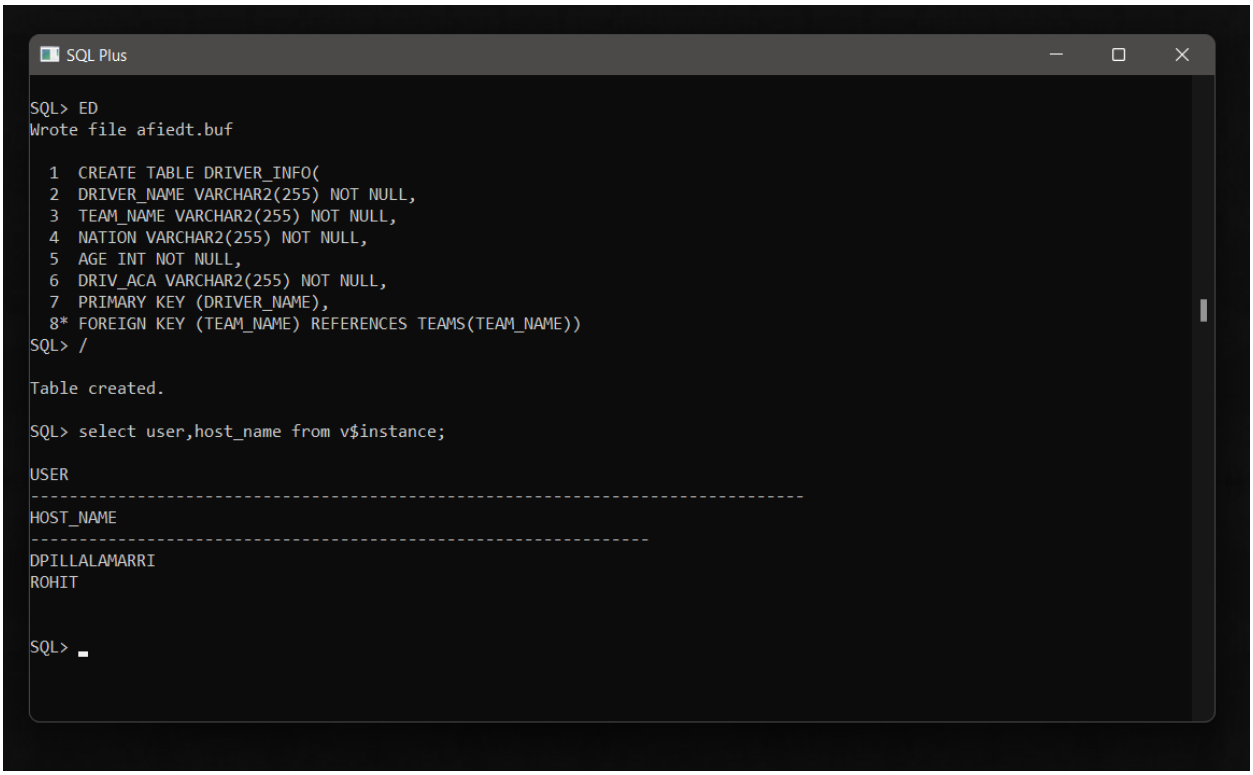


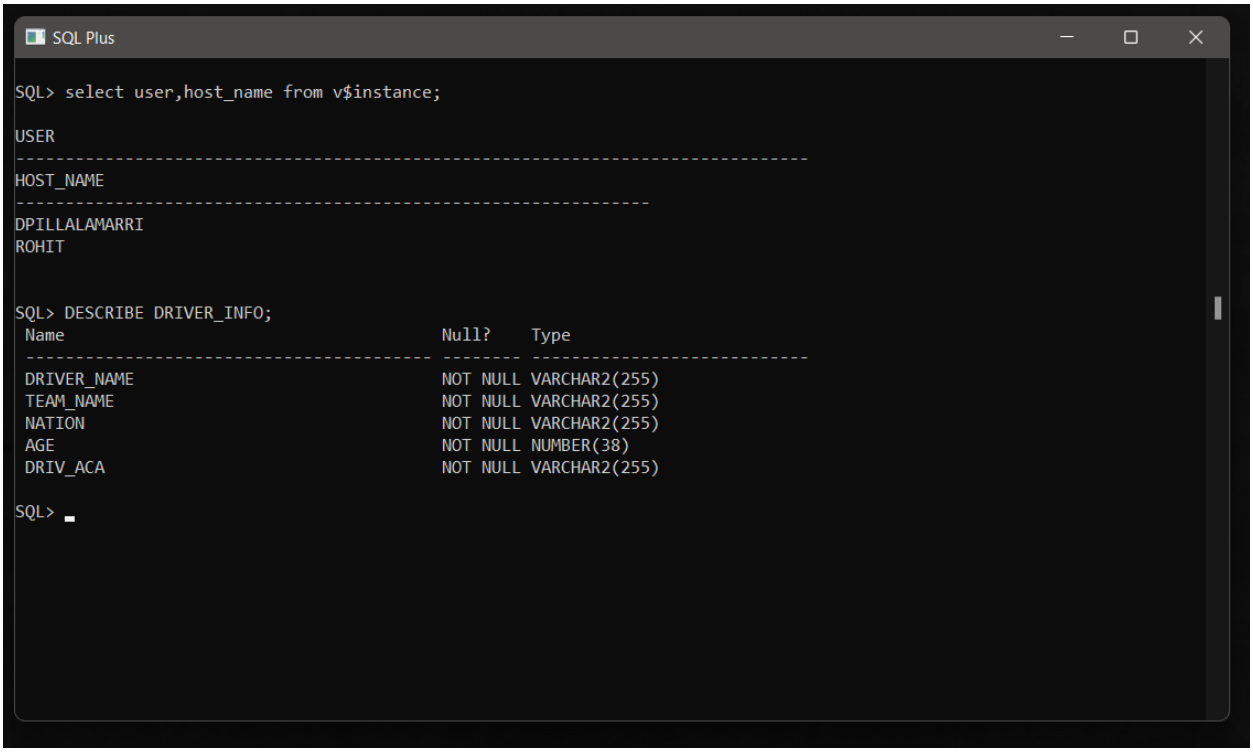

Administrator: Command Prompt - sqlplus
SQL> ED
Wrote file afiedt.buf
1 CREATE TABLE TEAM_BASIC_INFO(
2 TEAM_NAME VARCHAR2(255) NOT NULL,
3 TEAM_FNAME VARCHAR2(255) NOT NULL,
4 HQ VARCHAR2(255) NOT NULL,
5 CHASSIS VARCHAR2(255) NOT NULL,
6 PU VARCHAR2(255) NOT NULL,
7 TEAM_CHIEF VARCHAR2(255) NOT NULL,
8 PRIMARY KEY (TEAM_NAME),
9* FOREIGN KEY (TEAM_NAME) REFERENCES TEAMS (TEAM_NAME))
10 /
Table created.
SQL> select user,host_name from v$instance;
USER
HOST_NAME
DPILLALAMARRI
ROHIT
SQL>
6:43 PM
7/10/2022

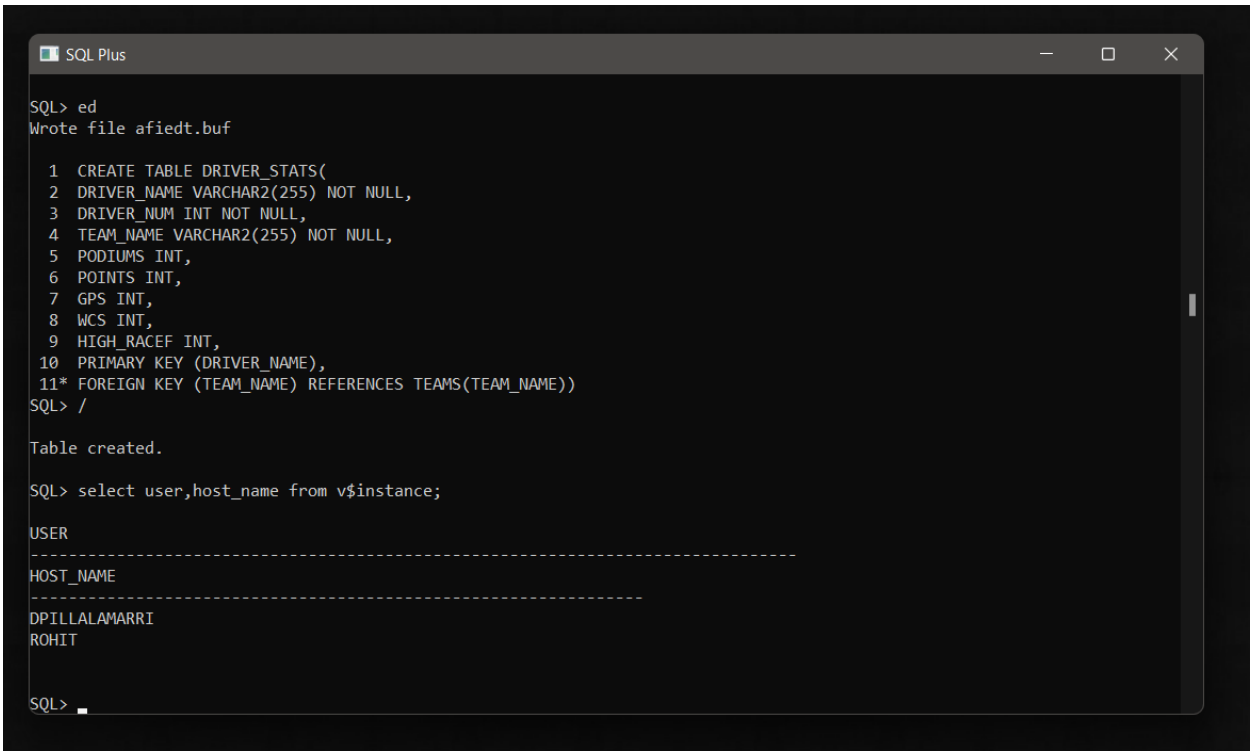

SQL Plus
SQL> DESCRIBE TEAM_BASIC_INFO;
Name Null? Type
TEAM_NAME NOT NULL VARCHAR2(255)
TEAM_FNAME NOT NULL VARCHAR2(255)
HQ NOT NULL VARCHAR2(255)
CHASSIS NOT NULL VARCHAR2(255)
PU NOT NULL VARCHAR2(255)
TEAM_CHIEF NOT NULL VARCHAR2(255)
SQL> select user,host_name from v$instance;
USER
HOST_NAME
DPILLALAMARRI
ROHIT
SQL>

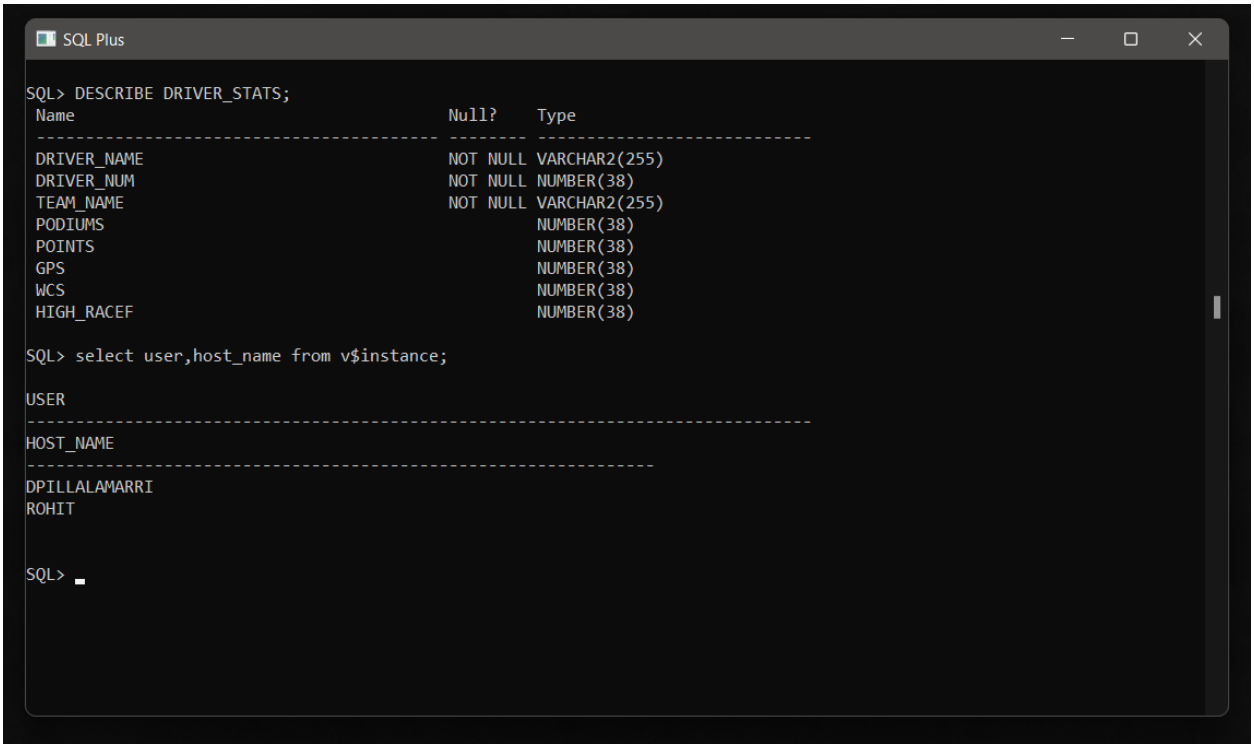

Administrator: Command Prompt - sqlplus
SQL> ED
Wrote file afiedt.buf
1 CREATE TABLE TEAM_STATS(
2 TEAM_NAME VARCHAR2(255) NOT NULL,
3 FIRST_ENTRY INT NOT NULL,
4 WC INT,
5 HIGH_RACEF INT,
6 POLE_POS INT,
7 FAST_LAP INT,
8 PRIMARY KEY (TEAM_NAME),
9* FOREIGN KEY (TEAM_NAME) REFERENCES TEAMS (TEAM_NAME))
SQL> /
Table created.
SQL> select user,host_name from v$instance;
USER
HOST_NAME
DPILLALAMARRI
ROHIT
SQL>
6:49 PM
7/10/2022

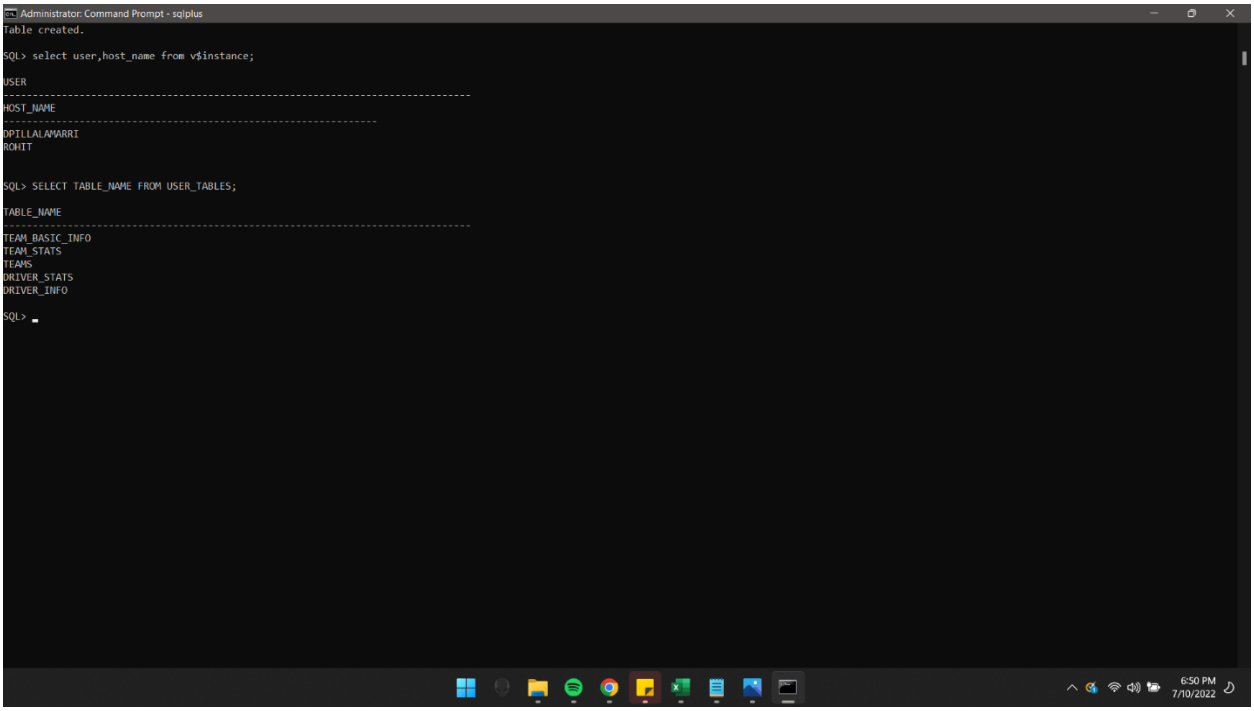

SQL Plus
SQL> select user,host_name from v$instance;
USER
HOST_NAME
DPILLALAMARRI
ROHIT
SQL> DESCRIBE TEAM_STATS;
Name Null? Type
TEAM_NAME NOT NULL VARCHAR2(255)
FIRST_ENTRY NOT NULL NUMBER(38)
WC NUMBER(38)
HIGH_RACEF NUMBER(38)
POLE_POS NUMBER(38)
FAST_LAP NUMBER(38)
SQL>


SQL Plus
SQL> ED
Wrote file afiedt.buf
1 CREATE TABLE DRIVER_INFO(
2 DRIVER_NAME VARCHAR2(255) NOT NULL,
3 TEAM_NAME VARCHAR2(255) NOT NULL,
4 NATION VARCHAR2(255) NOT NULL,
5 AGE INT NOT NULL,
6 DRIV_ACA VARCHAR2(255) NOT NULL,
7 PRIMARY KEY (DRIVER_NAME),
8* FOREIGN KEY (TEAM_NAME) REFERENCES TEAMS(TEAM_NAME))
SQL> /
Table created.
SQL> select user,host_name from v$instance;
USER
HOST_NAME
DPILLALAMARRI
ROHIT
SQL>

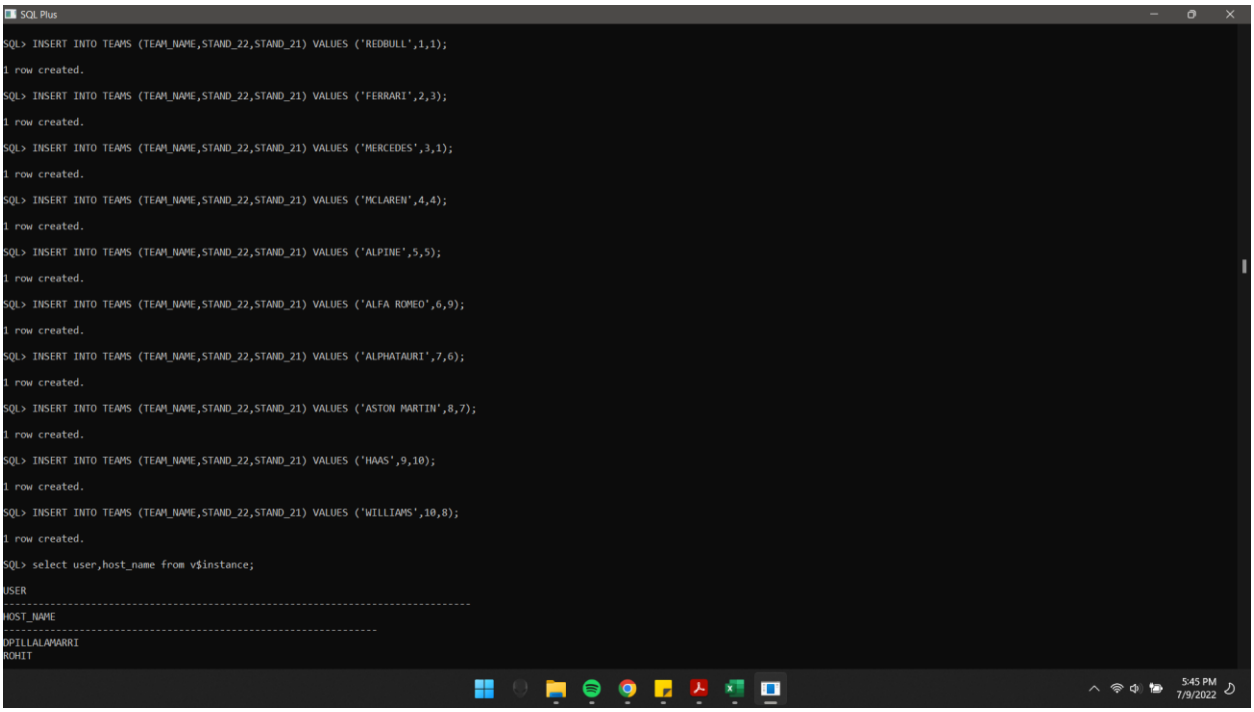

SQL Plus
SQL> select user,host_name from v$instance;
USER
HOST_NAME
DPILLALAMARRI
ROHIT
SQL> DESCRIBE DRIVER_INFO;
Name Null? Type
DRIVER_NAME NOT NULL VARCHAR2(255)
TEAM_NAME NOT NULL VARCHAR2(255)
NATION NOT NULL VARCHAR2(255)
AGE NOT NULL NUMBER(38)
DRIV_ACA NOT NULL VARCHAR2(255)
SQL>

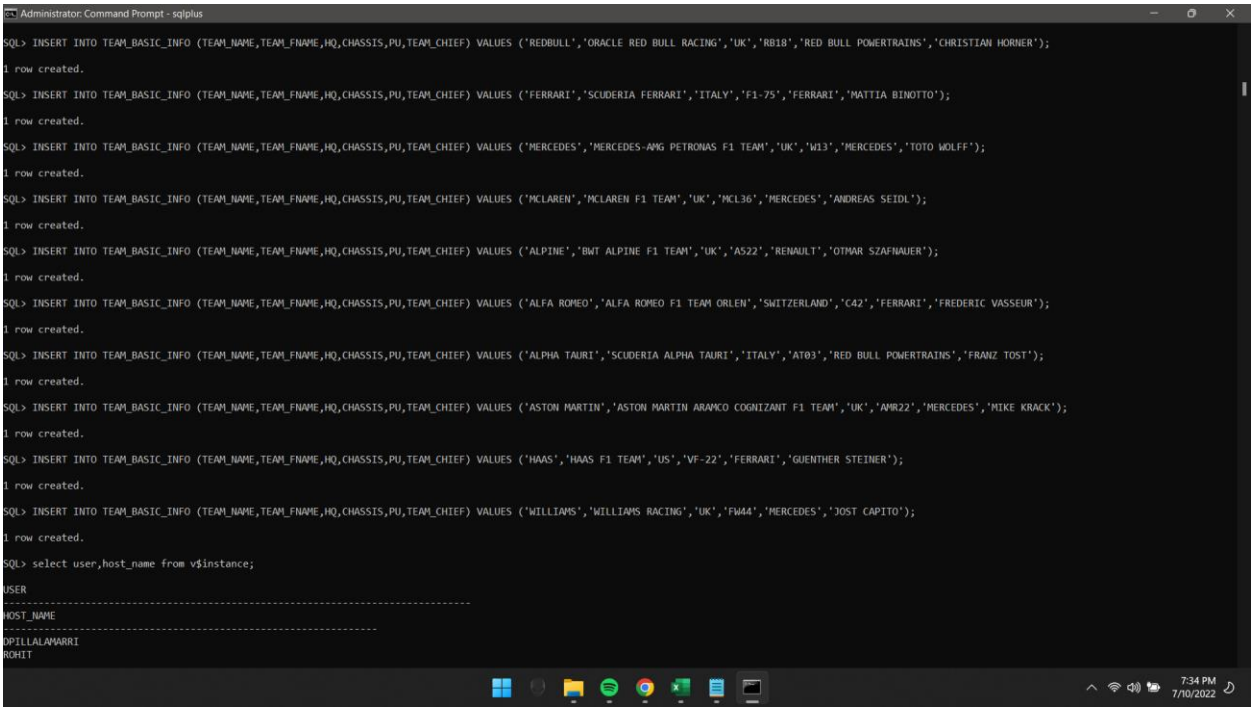

SQL Plus
SQL> ed
Wrote file afiedt.buf
1 CREATE TABLE DRIVER_STATS(
2 DRIVER_NAME VARCHAR2(255) NOT NULL,
3 DRIVER_NUM INT NOT NULL,
4 TEAM_NAME VARCHAR2(255) NOT NULL,
5 PODIUMS INT,
6 POINTS INT,
7 GPS INT,
8 WCS INT,
9 HIGH_RACEF INT,
10 PRIMARY KEY (DRIVER_NAME),
11* FOREIGN KEY (TEAM_NAME) REFERENCES TEAMS(TEAM_NAME))
SQL> /
Table created.
SQL> select user,host_name from v$instance;
USER
HOST_NAME
DPILLALAMARRI
ROHIT
SQL>

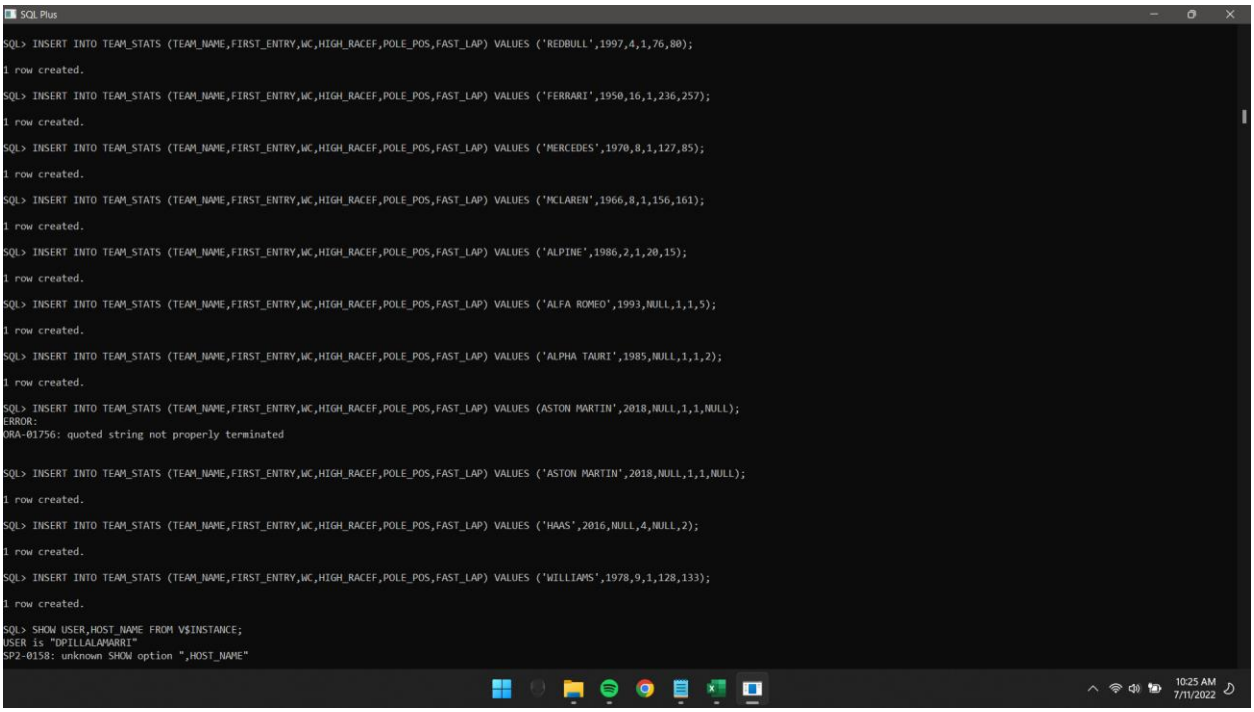

SQL Plus
SQL> DESCRIBE DRIVER_STATS;
Name Null? Type
DRIVER_NAME NOT NULL VARCHAR2(255)
DRIVER_NUM NOT NULL NUMBER(38)
TEAM_NAME NOT NULL VARCHAR2(255)
PODIUMS NUMBER(38)
POINTS NUMBER(38)
GPS NUMBER(38)
WCS NUMBER(38)
HIGH_RACEF NUMBER(38)
SQL> select user,host_name from v$instance;
USER
HOST_NAME
DPILLALAMARRI
ROHIT
SQL>

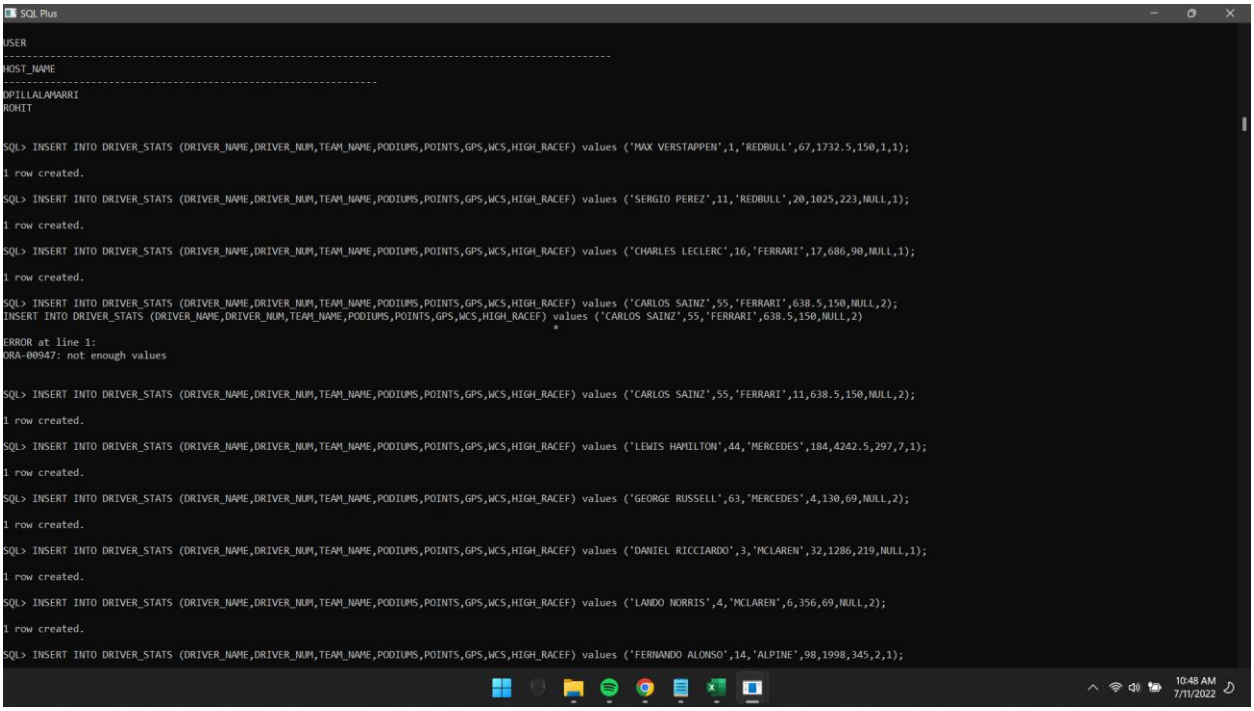


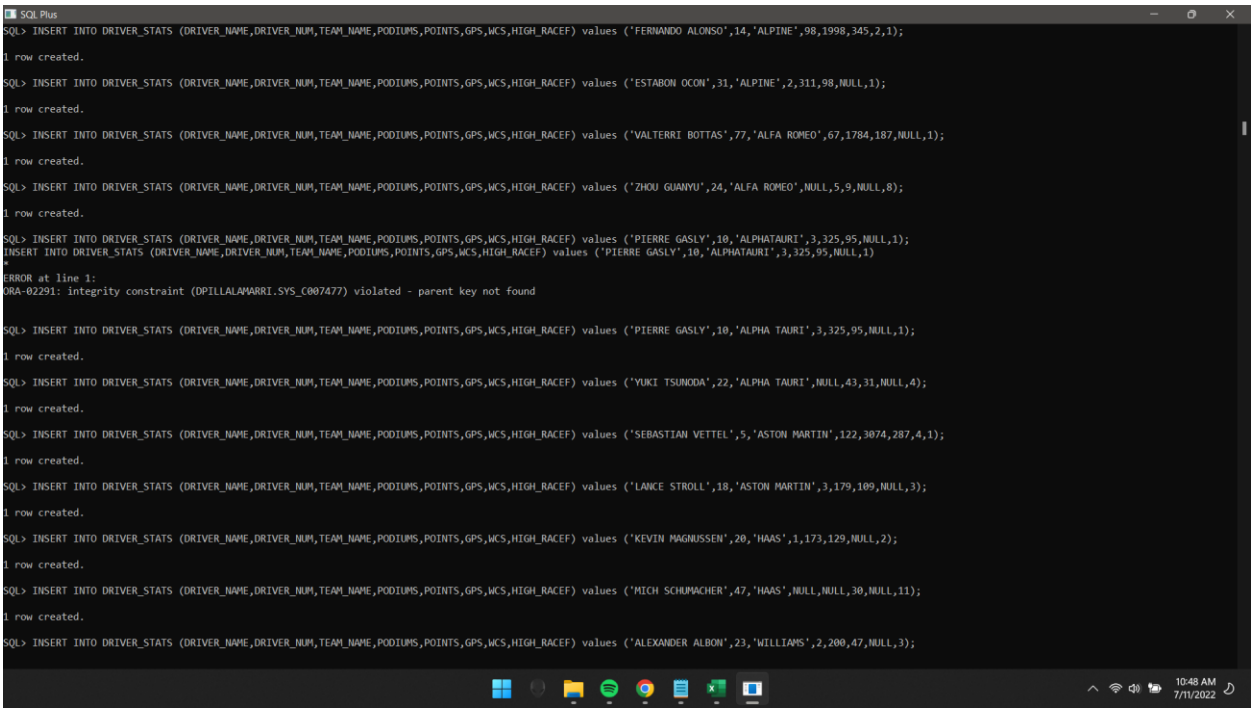
Inserting data in the tables:

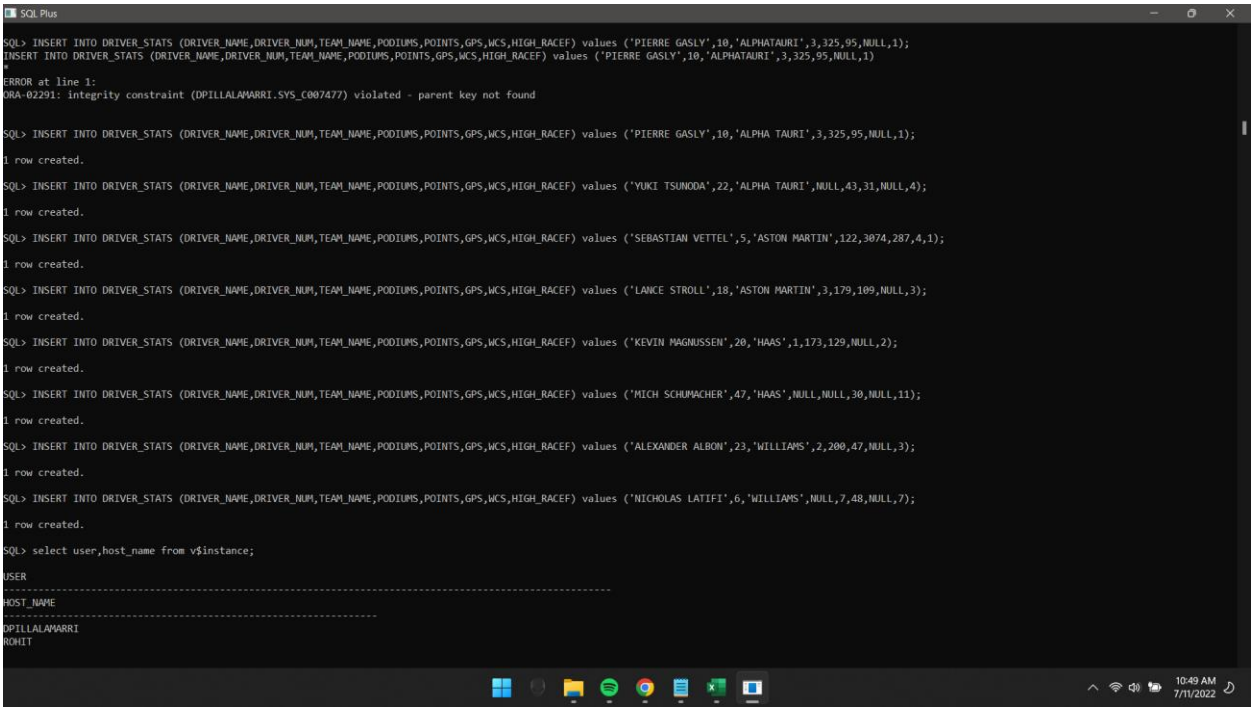


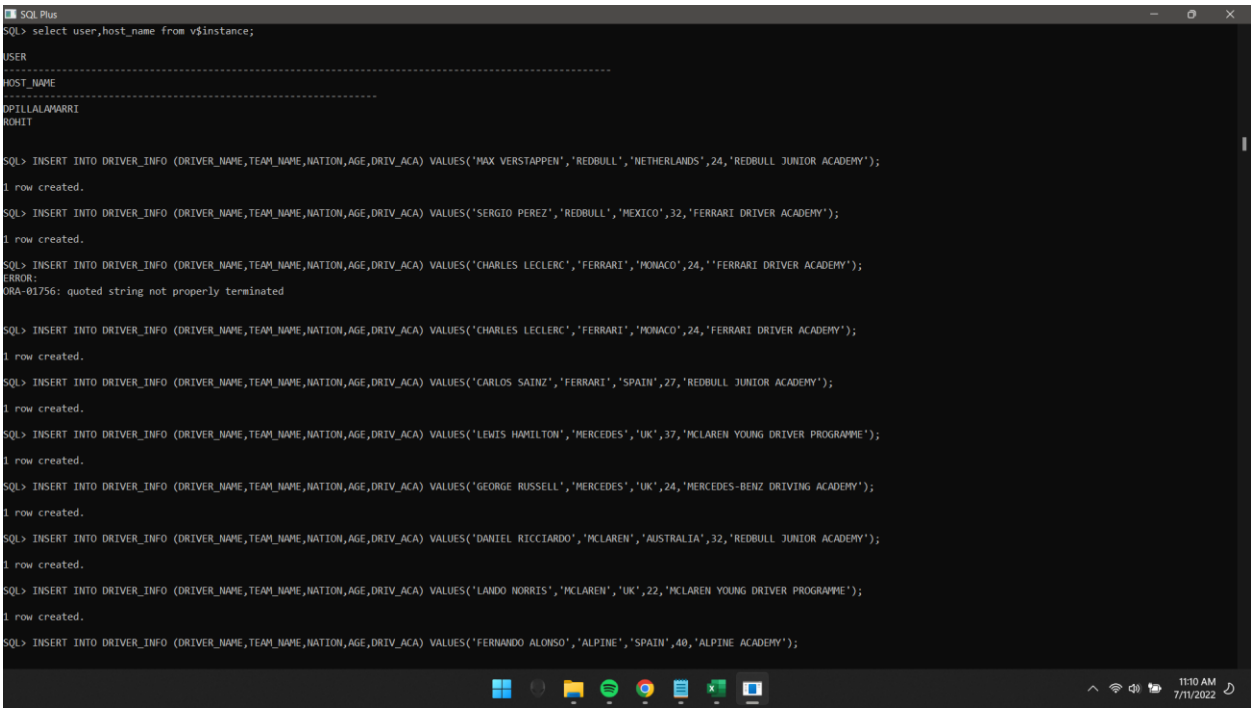

Administrator: Command Prompt - sqlplus
SQL> INSERT INTO TEAM_BASIC_INFO (TEAM_NAME,TEAM_FNAME,HQ,CHASSIS,PU,TEAM_CHIEF) VALUES ('REDBULL','ORACLE RED BULL RACING','UK','RB18','RED BULL POWERTRAINS','CHRISTIAN HORNER');
1 row created.
SQL> INSERT INTO TEAM_BASIC_INFO (TEAM_NAME,TEAM_FNAME,HQ,CHASSIS,PU,TEAM_CHIEF) VALUES ('FERRARI','SCUDERIA FERRARI','ITALY','F1-75','FERRARI','MATTIA BINOTTO');
1 row created.
SQL> INSERT INTO TEAM_BASIC_INFO (TEAM_NAME,TEAM_FNAME,HQ,CHASSIS,PU,TEAM_CHIEF) VALUES ('MERCEDES','MERCEDES-AMG PETRONAS F1 TEAM','UK','W13','MERCEDES','TOTO WOLFF');
1 row created.
SQL> INSERT INTO TEAM_BASIC_INFO (TEAM_NAME,TEAM_FNAME,HQ,CHASSIS,PU,TEAM_CHIEF) VALUES ('MCLAREN','MCLAREN F1 TEAM','UK','MCL36','MERCEDES','ANDREAS SEIDL');
1 row created.
SQL> INSERT INTO TEAM_BASIC_INFO (TEAM_NAME,TEAM_FNAME,HQ,CHASSIS,PU,TEAM_CHIEF) VALUES ('ALPINE','BWT ALPINE F1 TEAM','UK','A522','RENAULT','OTMAR SZAFNAUER');
1 row created.
SQL> INSERT INTO TEAM_BASIC_INFO (TEAM_NAME,TEAM_FNAME,HQ,CHASSIS,PU,TEAM_CHIEF) VALUES ('ALFA ROMEO','ALFA ROMEO F1 TEAM ORLEN','SWITZERLAND','C42','FERRARI','FREDERIC VASSEUR');
1 row created.
SQL> INSERT INTO TEAM_BASIC_INFO (TEAM_NAME,TEAM_FNAME,HQ,CHASSIS,PU,TEAM_CHIEF) VALUES ('ALPHA TAURI','SCUDERIA ALPHA TAURI','ITALY','AT03','RED BULL POWERTRAINS','FRANZ TOST');
1 row created.
SQL> INSERT INTO TEAM_BASIC_INFO (TEAM_NAME,TEAM_FNAME,HQ,CHASSIS,PU,TEAM_CHIEF) VALUES ('ASTON MARTIN','ASTON MARTIN ARAMCO COGNIZANT F1 TEAM','UK','AMR22','MERCEDES','MIKE KRACK');
1 row created.
SQL> INSERT INTO TEAM_BASIC_INFO (TEAM_NAME,TEAM_FNAME,HQ,CHASSIS,PU,TEAM_CHIEF) VALUES ('HAAS','HAAS F1 TEAM','US','VF-22','FERRARI','GUENTHER STEINER');
1 row created.
SQL> INSERT INTO TEAM_BASIC_INFO (TEAM_NAME,TEAM_FNAME,HQ,CHASSIS,PU,TEAM_CHIEF) VALUES ('WILLIAMS','WILLIAMS RACING','UK','FW44','MERCEDES','JOST CAPITO');
1 row created.
SQL> select user,host_name from v$instance;
USER
HOST_NAME
DPILLALAMARRI
ROHIT
7:34 PM
7/10/2022

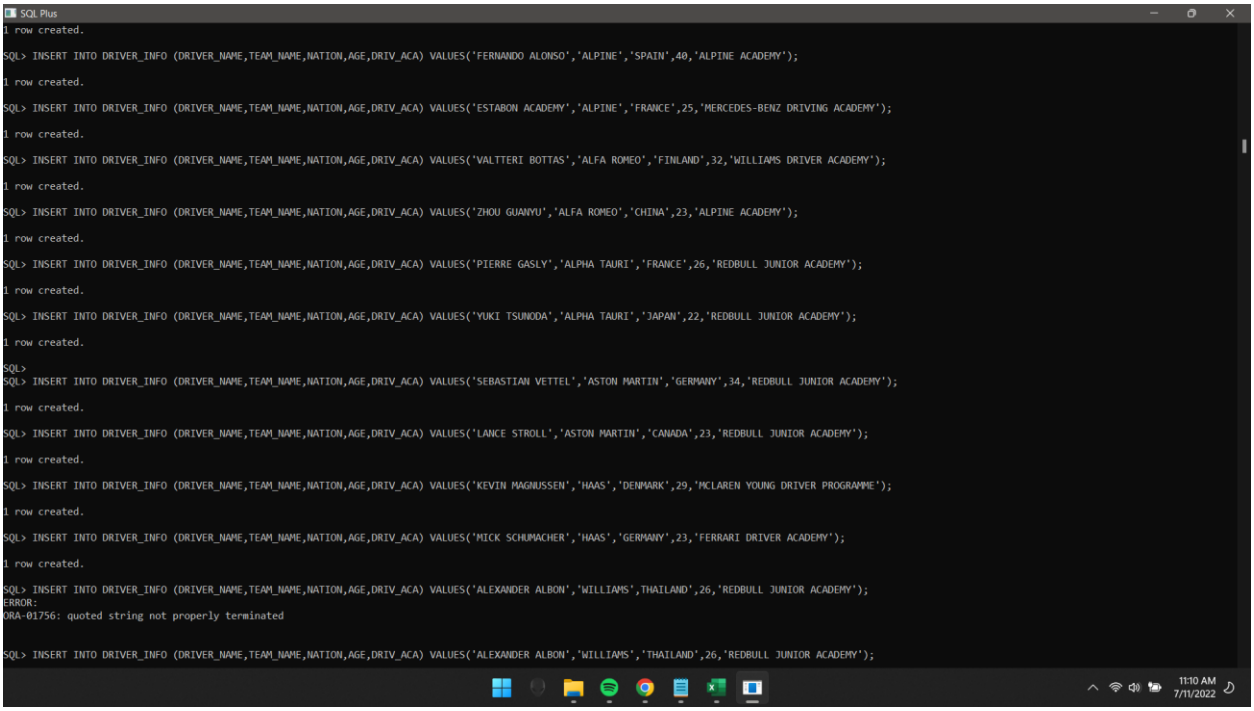

SQL Plus
SQL> INSERT INTO TEAM_STATS (TEAM_NAME,FIRST_ENTRY,WC,HIGH_RACEF,POLE_POS,FAST_LAP) VALUES ('REDBULL',1997,4,1,76,80);
1 row created.
SQL> INSERT INTO TEAM_STATS (TEAM_NAME,FIRST_ENTRY,WC,HIGH_RACEF,POLE_POS,FAST_LAP) VALUES ('FERRARI',1950,16,1,236,257);
1 row created.
SQL> INSERT INTO TEAM_STATS (TEAM_NAME,FIRST_ENTRY,WC,HIGH_RACEF,POLE_POS,FAST_LAP) VALUES ('MERCEDES',1970,8,1,127,85);
1 row created.
SQL> INSERT INTO TEAM_STATS (TEAM_NAME,FIRST_ENTRY,WC,HIGH_RACEF,POLE_POS,FAST_LAP) VALUES ('MCLAREN',1966,8,1,156,161);
1 row created.
SQL> INSERT INTO TEAM_STATS (TEAM_NAME,FIRST_ENTRY,WC,HIGH_RACEF,POLE_POS,FAST_LAP) VALUES ('ALPINE',1986,2,1,20,15);
1 row created.
SQL> INSERT INTO TEAM_STATS (TEAM_NAME,FIRST_ENTRY,WC,HIGH_RACEF,POLE_POS,FAST_LAP) VALUES ('ALFA ROMEO',1993,NULL,1,1,5);
1 row created.
SQL> INSERT INTO TEAM_STATS (TEAM_NAME,FIRST_ENTRY,WC,HIGH_RACEF,POLE_POS,FAST_LAP) VALUES ('ALPHA TAURI',1985,NULL,1,1,2);
1 row created.
SQL> INSERT INTO TEAM_STATS (TEAM_NAME,FIRST_ENTRY,WC,HIGH_RACEF,POLE_POS,FAST_LAP) VALUES (ASTON MARTIN',2018,NULL,1,1,NULL);
ERROR:
ORA-01756: quoted string not properly terminated
SQL> INSERT INTO TEAM_STATS (TEAM_NAME,FIRST_ENTRY,WC,HIGH_RACEF,POLE_POS,FAST_LAP) VALUES ('ASTON MARTIN',2018,NULL,1,1,NULL);
1 row created.
SQL> INSERT INTO TEAM_STATS (TEAM_NAME,FIRST_ENTRY,WC,HIGH_RACEF,POLE_POS,FAST_LAP) VALUES ('HAAS',2016,NULL,4,NULL,2);
1 row created.
SQL> INSERT INTO TEAM_STATS (TEAM_NAME,FIRST_ENTRY,WC,HIGH_RACEF,POLE_POS,FAST_LAP) VALUES ('WILLIAMS',1978,9,1,128,133);
1 row created.
SQL> SHOW USER,HOST_NAME FROM V$INSTANCE;
USER is "DPILLALAMARRI"
SP2-0158: unknown SHOW option ",HOST_NAME"
10:25 AM
7/11/2022

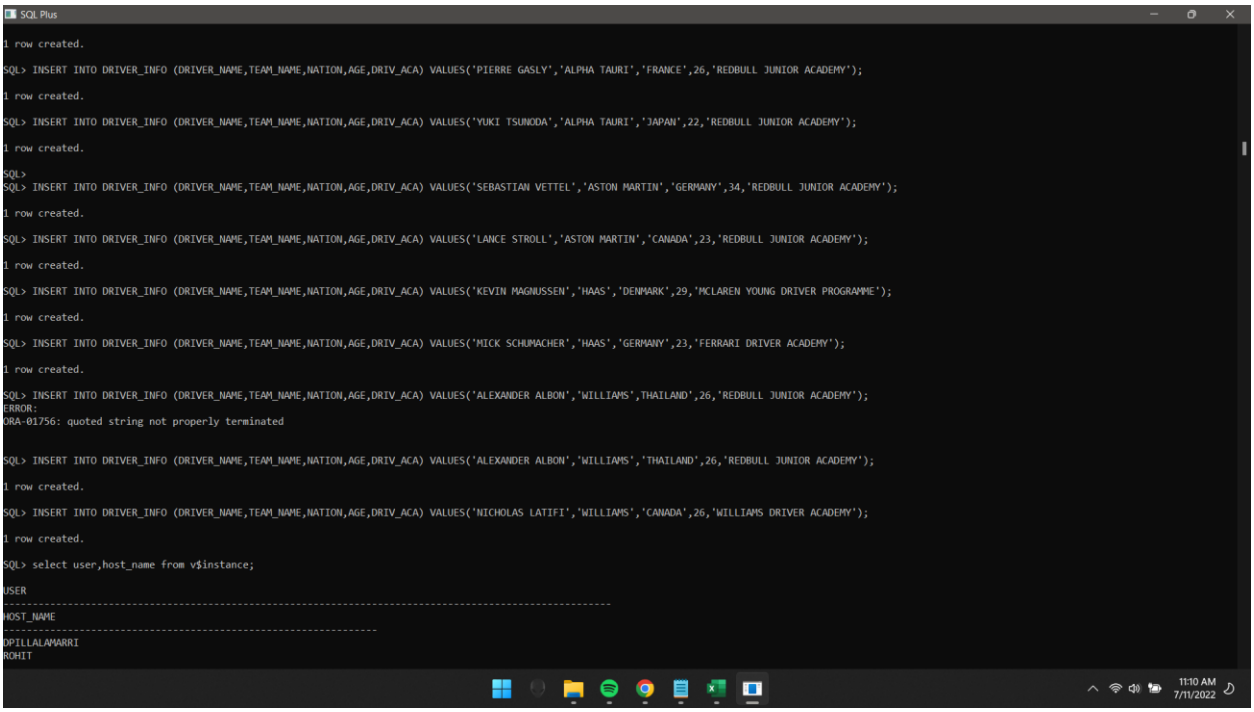

SQL Plus
USER
HOST_NAME
DPILLALAMARRI
ROHIT
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('MAX VERSTAPPEN',1,'REDBULL',67,1732.5,150,1,1);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('SERGIO PEREZ',11,'REDBULL',20,1025,223,NULL,1);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('CHARLES LECLERC',16,'FERRARI',17,686,90,NULL,1);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('CARLOS SAINZ',55,'FERRARI',638.5,150,NULL,2);
INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('CARLOS SAINZ',55,'FERRARI',638.5,150,NULL,2)
*
ERROR at line 1:
ORA-00947: not enough values
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('CARLOS SAINZ',55,'FERRARI',11,638.5,150,NULL,2);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('LEWIS HAMILTON',44,'MERCEDES',184,4242.5,297,7,1);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('GEORGE RUSSELL',63,'MERCEDES',4,130,69,NULL,2);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('DANIEL RICCIARDO',3,'MCLAREN',32,1286,219,NULL,1);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('LANDO NORRIS',4,'MCLAREN',6,356,69,NULL,2);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('FERNANDO ALONSO',14,'ALPINE',98,1998,345,2,1);
10:48 AM
7/11/2022


SQL Plus
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('FERNANDO ALONSO',14,'ALPINE',98,1998,345,2,1);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('ESTABON OCON',31,'ALPINE',2,311,98,NULL,1);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('VALTERRI BOTTAS',77,'ALFA ROMEO',67,1784,187,NULL,1);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('ZHOU GUANYU',24,'ALFA ROMEO',NULL,5,9,NULL,8);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('PIERRE GASLY',10,'ALPHATAURI',3,325,95,NULL,1);
INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('PIERRE GASLY',10,'ALPHATAURI',3,325,95,NULL,1)
*
ERROR at line 1:
ORA-02291: integrity constraint (DPILLALAMARRI.SYS_C007477) violated - parent key not found
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('PIERRE GASLY',10,'ALPHA TAURI',3,325,95,NULL,1);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('YUKI TSUNODA',22,'ALPHA TAURI',NULL,43,31,NULL,4);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('SEBASTIAN VETTEL',5,'ASTON MARTIN',122,3074,287,4,1);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('LANCE STROLL',18,'ASTON MARTIN',3,179,109,NULL,3);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('KEVIN MAGNUSSEN',20,'HAAS',1,173,129,NULL,2);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('MICH SCHUMACHER',47,'HAAS',NULL,NULL,30,NULL,11);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('ALEXANDER ALBON',23,'WILLIAMS',2,200,47,NULL,3);
10:48 AM
7/11/2022


SQL Plus
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('PIERRE GASLY',10,'ALPHATAURI',3,325,95,NULL,1);
INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('PIERRE GASLY',10,'ALPHATAURI',3,325,95,NULL,1)
*
ERROR at line 1:
ORA-02291: integrity constraint (DPILLALAMARRI.SYS_C007477) violated - parent key not found
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('PIERRE GASLY',10,'ALPHA TAURI',3,325,95,NULL,1);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('YUKI TSUNODA',22,'ALPHA TAURI',NULL,43,31,NULL,4);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('SEBASTIAN VETTEL',5,'ASTON MARTIN',122,3074,287,4,1);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('LANCE STROLL',18,'ASTON MARTIN',3,179,109,NULL,3);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('KEVIN MAGNUSSEN',20,'HAAS',1,173,129,NULL,2);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('MICH SCHUMACHER',47,'HAAS',NULL,NULL,30,NULL,11);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('ALEXANDER ALBON',23,'WILLIAMS',2,200,47,NULL,3);
1 row created.
SQL> INSERT INTO DRIVER_STATS (DRIVER_NAME,DRIVER_NUM,TEAM_NAME,PODIUMS,POINTS,GPS,WCS,HIGH_RACEF) values ('NICHOLAS LATIFI',6,'WILLIAMS',NULL,7,48,NULL,7);
1 row created.
SQL> select user,host_name from v$instance;
USER
HOST_NAME
DPILLALAMARRI
ROHIT
10:49 AM
7/11/2022


SQL Plus
SQL> select user,host_name from v$instance;
USER
HOST_NAME
DPILLALAMARRI
ROHIT
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('MAX VERSTAPPEN','REDBULL','NETHERLANDS',24,'REDBULL JUNIOR ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('SERGIO PEREZ','REDBULL','MEXICO',32,'FERRARI DRIVER ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('CHARLES LECLERC','FERRARI','MONACO',24,''FERRARI DRIVER ACADEMY');
ERROR:
ORA-01756: quoted string not properly terminated
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('CHARLES LECLERC','FERRARI','MONACO',24,'FERRARI DRIVER ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('CARLOS SAINZ','FERRARI','SPAIN',27,'REDBULL JUNIOR ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('LEWIS HAMILTON','MERCEDES','UK',37,'MCLAREN YOUNG DRIVER PROGRAMME');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('GEORGE RUSSELL','MERCEDES','UK',24,'MERCEDES-BENZ DRIVING ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('DANIEL RICCIARDO','MCLAREN','AUSTRALIA',32,'REDBULL JUNIOR ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('LANDO NORRIS','MCLAREN','UK',22,'MCLAREN YOUNG DRIVER PROGRAMME');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('FERNANDO ALONSO','ALPINE','SPAIN',40,'ALPINE ACADEMY');
11:10 AM
7/11/2022


SQL Plus
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('FERNANDO ALONSO','ALPINE','SPAIN',40,'ALPINE ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('ESTABON ACADEMY','ALPINE','FRANCE',25,'MERCEDES-BENZ DRIVING ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('VALTTERI BOTTAS','ALFA ROMEO','FINLAND',32,'WILLIAMS DRIVER ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('ZHOU GUANYU','ALFA ROMEO','CHINA',23,'ALPINE ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('PIERRE GASLY','ALPHA TAURI','FRANCE',26,'REDBULL JUNIOR ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('YUKI TSUNODA','ALPHA TAURI','JAPAN',22,'REDBULL JUNIOR ACADEMY');
1 row created.
SQL>
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('SEBASTIAN VETTEL','ASTON MARTIN','GERMANY',34,'REDBULL JUNIOR ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('LANCE STROLL','ASTON MARTIN','CANADA',23,'REDBULL JUNIOR ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('KEVIN MAGNUSSEN','HAAS','DENMARK',29,'MCLAREN YOUNG DRIVER PROGRAMME');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('MICK SCHUMACHER','HAAS','GERMANY',23,'FERRARI DRIVER ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('ALEXANDER ALBON','WILLIAMS',THAILAND',26,'REDBULL JUNIOR ACADEMY');
ERROR:
ORA-01756: quoted string not properly terminated
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('ALEXANDER ALBON','WILLIAMS','THAILAND',26,'REDBULL JUNIOR ACADEMY');
11:10 AM
7/11/2022


SQL Plus
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('PIERRE GASLY','ALPHA TAURI','FRANCE',26,'REDBULL JUNIOR ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('YUKI TSUNODA','ALPHA TAURI','JAPAN',22,'REDBULL JUNIOR ACADEMY');
1 row created.
SQL>
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('SEBASTIAN VETTEL','ASTON MARTIN','GERMANY',34,'REDBULL JUNIOR ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('LANCE STROLL','ASTON MARTIN','CANADA',23,'REDBULL JUNIOR ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('KEVIN MAGNUSSEN','HAAS','DENMARK',29,'MCLAREN YOUNG DRIVER PROGRAMME');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('MICK SCHUMACHER','HAAS','GERMANY',23,'FERRARI DRIVER ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('ALEXANDER ALBON','WILLIAMS',THAILAND',26,'REDBULL JUNIOR ACADEMY');
ERROR:
ORA-01756: quoted string not properly terminated
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('ALEXANDER ALBON','WILLIAMS','THAILAND',26,'REDBULL JUNIOR ACADEMY');
1 row created.
SQL> INSERT INTO DRIVER_INFO (DRIVER_NAME,TEAM_NAME,NATION,AGE,DRIV_ACA) VALUES('NICHOLAS LATIFI','WILLIAMS','CANADA',26,'WILLIAMS DRIVER ACADEMY');
1 row created.
SQL> select user,host_name from v$instance;
USER
HOST_NAME
DPILLALAMARRI
ROHIT
11:10 AM
7/11/2022

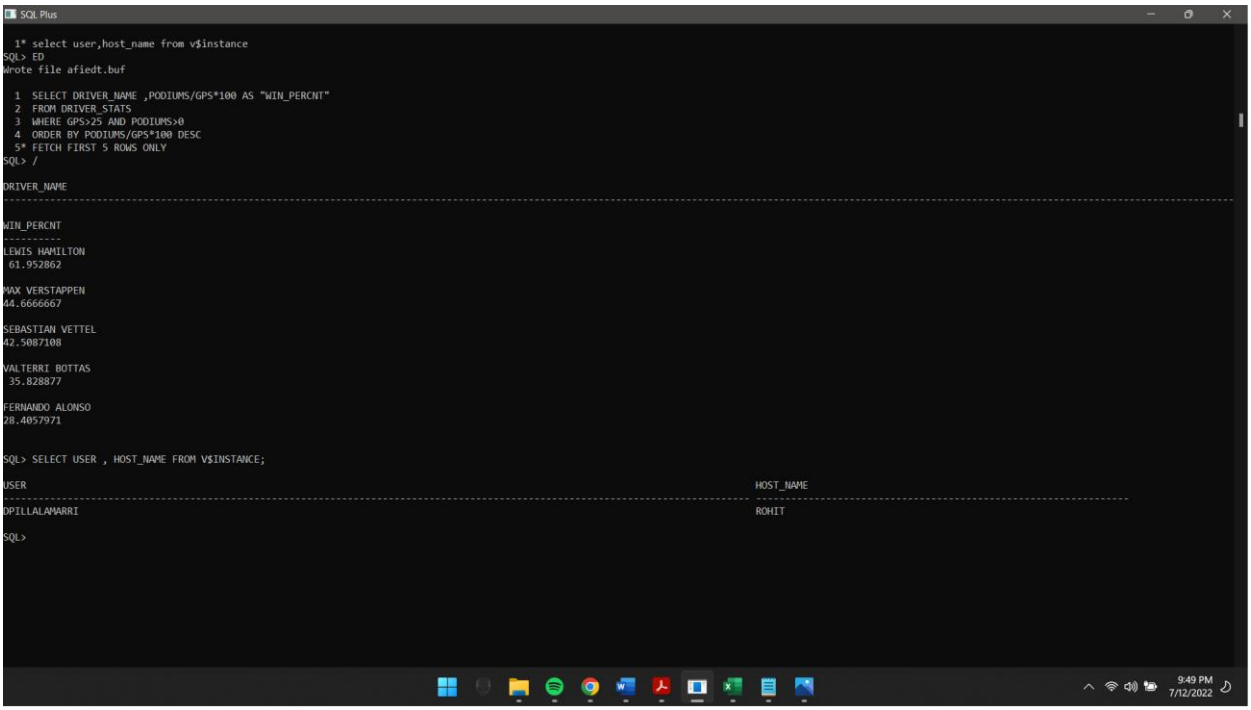
STEP 4:

- Develop SQL queries
- Advanced SQL queries

Query 1:

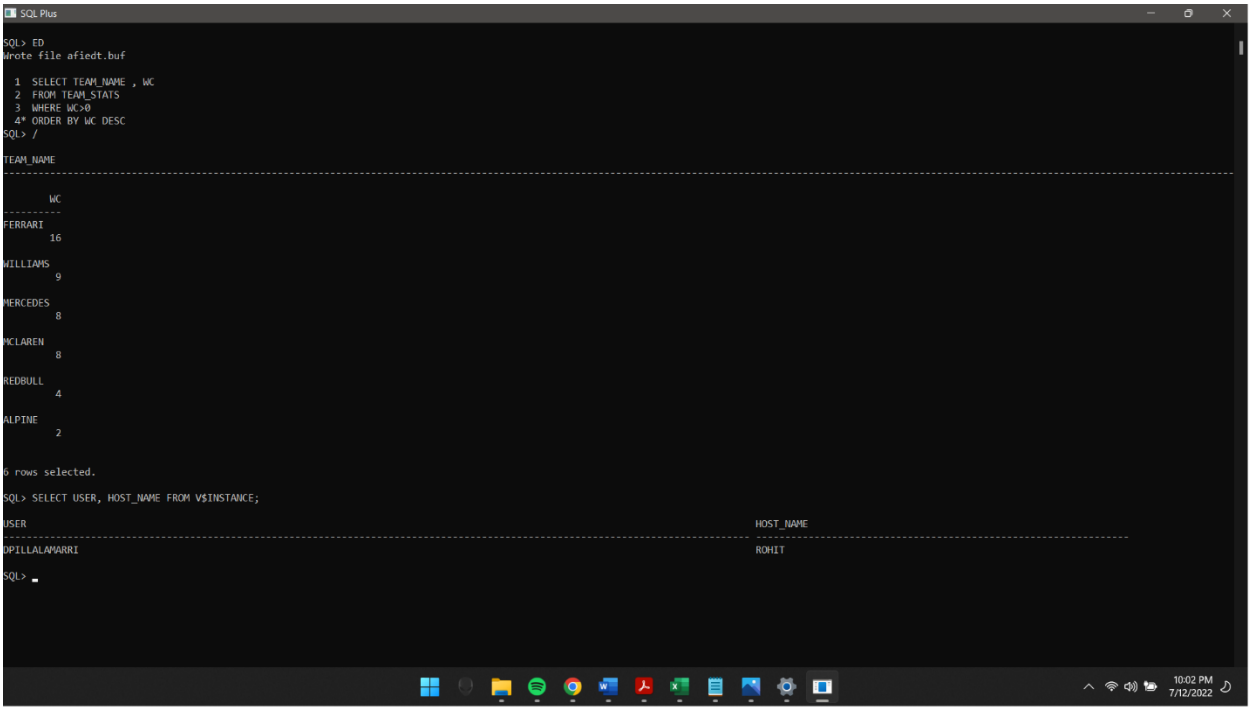
SHOW TOP 5 DRIVERS WITH MOST WIN PERCENTAGE

CONDITIONS: DRIVER SHOULD ATLEAST HAVE 24 RACE STARTS.



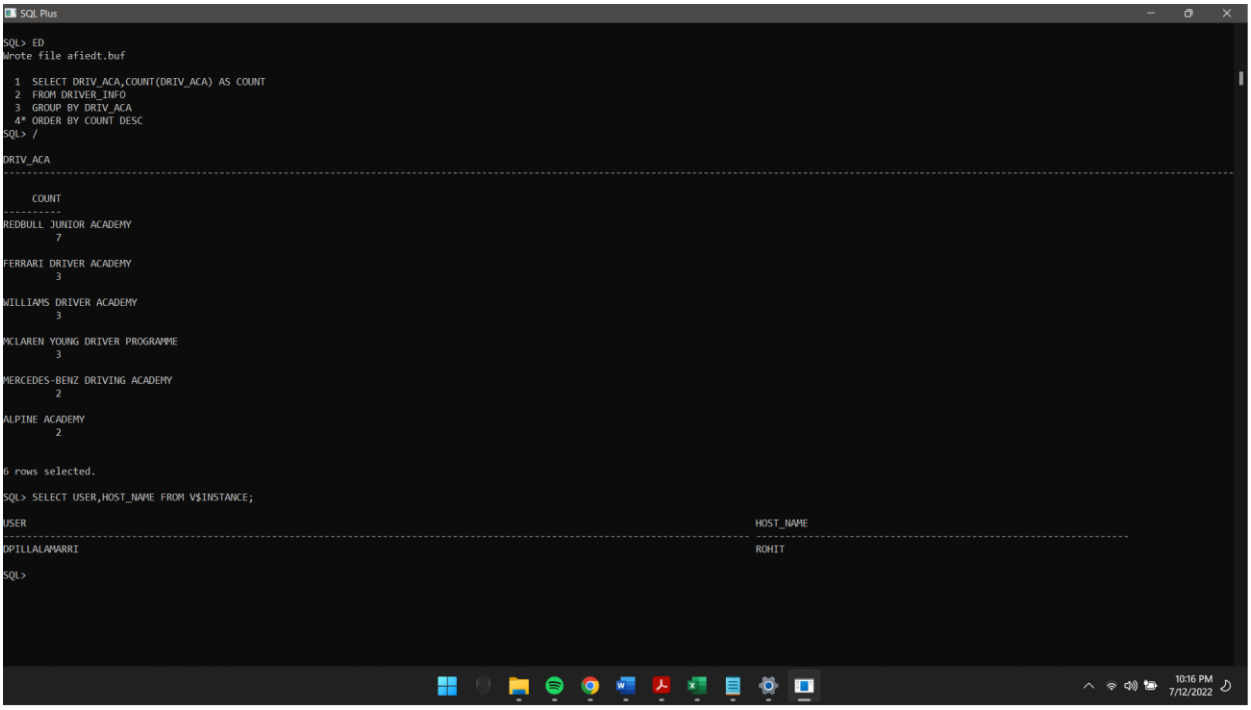
QUERY 2:

TEAMS WITH MOST WORLD CHAMPIONSHIPS



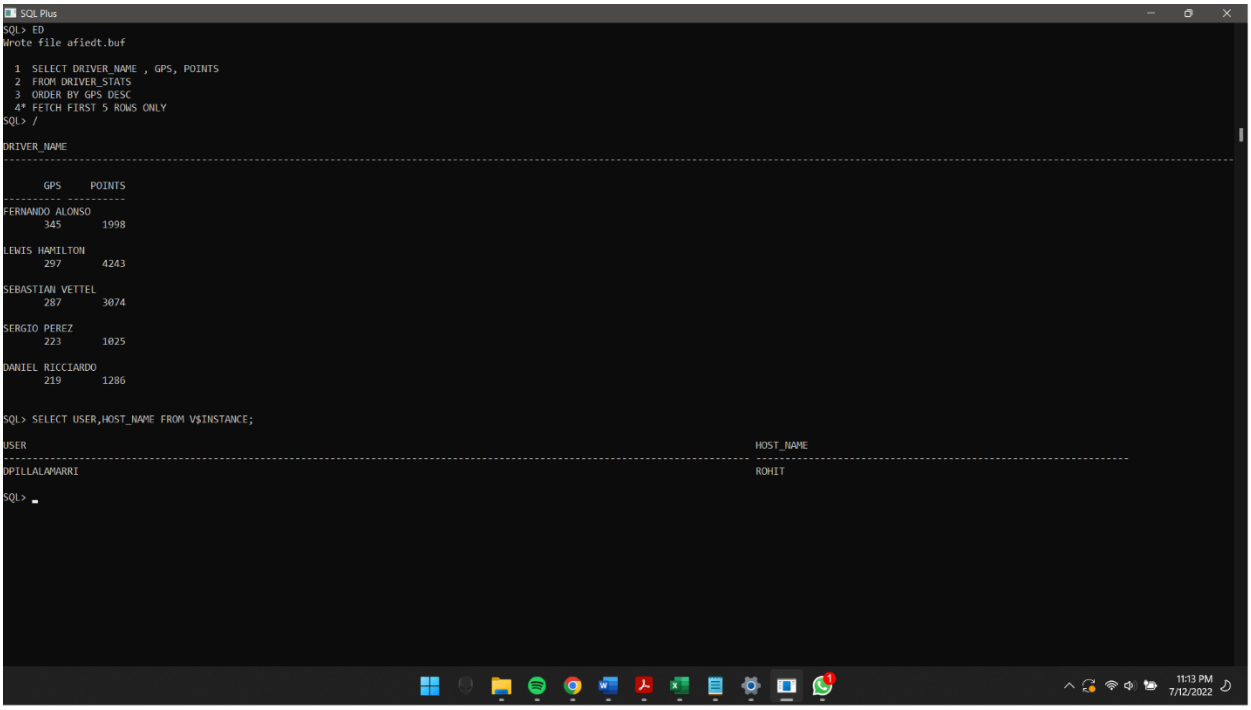
QUERY 3:

DRIVER ACADEMIES WITH MOST NUMBER OF DRIVERS



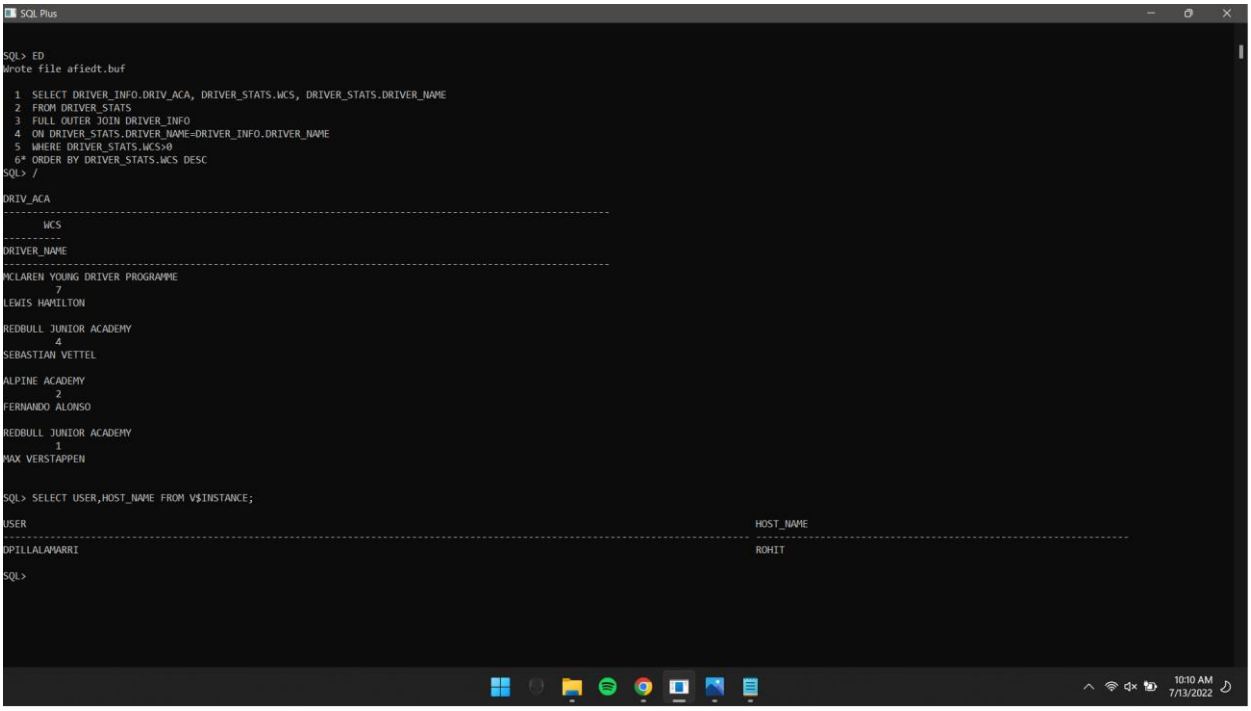
QUERY 4:

SHOW DRIVERS WITH MOST EXPERIENCE AND POINTS SCORED BY THEM



QUERY 5:

SELECT DRIVER ACADEMIES WITH MOST WORLD CHAMPIONSHIPS



Step Five:

- Develop report
- Analyze data

From the above queries made and by the data I gathered for the project , the conclusion I got is that the red bull academy is the most successful academy in the sport because seven drivers from the 20 drivers are from red bull academy and the academy even has 5 championships.

Lewis Hamilton is most successful driver in the current grid with most wins, most world championships and most points.