ORACLE SQL FINAL PROJECT REPORT

Date: 29-OCT-2023

Create new database, create tables ,Insert data into the tables, make connection between the table.

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Creating a Database

```
CONN SYSTEM/TIGER;
Connected.
CREATE USER PROJECT IDENTIFIED BY SQL;
User created.
```

Grant Permissions for Database

```
GRANT CONNECT TO PROJECT;
Grant succeed.
GRANT UNLIMITED TABLESPACE TO PROJECT;
Grant succeed.
GRANT CREATE TABLE TO PROJECT;
Grant succeed.
```

Creating Table:-

1.Creating Table PROJECT

```
CREATE TABLE PROJECT
(
PROJECTID NUMBER(5) NOT NULL,
PROJECTNAME VARCHAR(50) NULL,
STARTDATE DATE NULL,
ENDDATE DATE NULL
);
Table created.
```

2.Creating Table TEAM

```
CREATE TABLE TEAM
 (
 TEAMID NUMBER(5) NOT NULL,
 TEAMNAME VARCHAR(20) NULL,
 TEAMDESCRIPTION VARCHAR(50) NULL
 );
Table created.
```

3.Creating Table PROJECT_ASSIGNMENT

```
CREATE TABLE PROJECT_ASSIGNMENT
```

```
(
PROJECTID NUMBER(5) NOT NULL,
TEAMID NUMBER(5) NOT NULL
);
```
Table created.

4.Creating Table DEVELOPER_SKILL

```
CREATE TABLE DEVELOPER_SKILL

 (
 DEVELOPERID NUMBER(5) NOT NULL,
 SKILL VARCHAR(20) NULL
 );
```
Table created.
5.Creating Table Developer

```
CREATE TABLE DEVELOPER

 (
 DEVELOPERID NUMBER(5) NOT NULL,
 FIRSTNAME VARCHAR(20) NOT NULL,
 LASTNAME VARCHAR(20) NOT NULL,
 WORKEXPERIENCE NUMBER(5) NULL
 );
```
Table created.
6.Creating Table DEVELOPER_TEAM

```
CREATE TABLE DEVELOPER_TEAM

(
TEAMID NUMBER(5) NOT NULL,
DEVELOPERID NUMBER(5) NOT NULL
);
```
Table created.

Making PROJECTID in PROJECT table as primary key

```
ALTER TABLE PROJECT
ADD CONSTRAINT PROJECTID_PK PRIMARY KEY (PROJECTID);
```
Table altered.
Making TEAMID In TEAM table as primary key

```
ALTER TABLE TEAM
 ADD CONSTRAINT TEAMID_PK PRIMARY KEY(TEAMID);
```

Table altered.
Making PROJECTID in PROJECT_ASSIGNMENT table as foreign key

```
ALTER TABLE PROJECT_ASSIGNMENT
ADD CONSTRAINT PROJECTID_FK FOREIGN KEY(PROJECTID)
REFERENCES PROJECT(PROJECTID);
```
Table altered.
Making TEAMID in PROJECT_ASSIGNMENT table as foreign key

```
 ALTER TABLE PROJECT_ASSIGNMENT
 ADD CONSTRAINT TEAMID_FK FOREIGN KEY(TEAMID)
 REFERENCES TEAM(TEAMID);
```
Table altered.
Creating DEVELOPERID in DEVELOPER table as primary key

```
ALTER TABLE DEVELOPER
ADD CONSTRAINT DEVELOPERID_PK PRIMARY KEY(DEVELOPERID);
```
Table altered.
Making DEVELOPERID in DEVELOPER_SKILL table as foreign key

```
ALTER TABLE DEVELOPER_SKILL
ADD CONSTRAINT DEVELOPERID_FK FOREIGN KEY(DEVELOPERID)
REFERENCES DEVELOPER(DEVELOPERID);
```
Table altered.
Creating TEAMID in DEVELOPER_TEAM table as foreign key

```
ALTER TABLE DEVELOPER_TEAM
 ADD CONSTRAINT TEAM_ID_FK FOREIGN KEY(TEAMID)
 REFERENCES TEAM(TEAMID);
```
Creating DEVELOPERID IN DEVELOPER_TEAM table as foreign key

```
ALTER TABLE DEVELOPER_TEAM
 ADD CONSTRAINT DEVELOPER_ID_FK FOREIGN KEY(DEVELOPERID)
 REFERENCES DEVELOPER(DEVELOPERID);
```

Inserting records into table PROJECT

```
INSERT INTO PROJECT VALUES(&PROJECTID,&PROJECTNAME,&STARTDATE,&ENDDATE);
Enter value for projectid: 10001
Enter value for projectname: 'NEW_DATABASE'
Enter value for startdate: '01-OCT-2023'
Enter value for enddate: '29-OCT-2023'
old   1: INSERT INTO PROJECT VALUES(&PROJECTID,&PROJECTNAME,&STARTDATE,&ENDDATE)
new   1: INSERT INTO PROJECT VALUES(10001,'NEW_DATABASE','01-OCT-2023','29-OCT-2023')
Enter value for projectid: 10002
Enter value for projectname: 'SQL'
Enter value for startdate: '20-DEC-2021'
```

Enter value for enddate: '02-FEB-2022'
old   1: INSERT INTO PROJECT VALUES(&PROJECTID,&PROJECTNAME,&STARTDATE,&ENDDATE)
new   1: INSERT INTO PROJECT VALUES(10002,'SQL','20-DEC-2021','02-FEB-2022')
Enter value for projectid: 10003
Enter value for projectname: 'FRONTEND'
Enter value for startdate: '23-SEP-2020'
Enter value for enddate: '30-DEC-2020'
old   1: INSERT INTO PROJECT VALUES(&PROJECTID,&PROJECTNAME,&STARTDATE,&ENDDATE)
new   1: INSERT INTO PROJECT VALUES(10003,'FRONTEND','23-SEP-2020','30-DEC-2020')
Enter value for projectid: 10004
Enter value for projectname: 'BACKEND'
Enter value for startdate: '01-FEB-2018'
Enter value for enddate: '31-DEC-2018'
old   1: INSERT INTO PROJECT VALUES(&PROJECTID,&PROJECTNAME,&STARTDATE,&ENDDATE)
new   1: INSERT INTO PROJECT VALUES(10004,'BACKEND','01-FEB-2018','31-DEC-2018')
Enter value for projectid: 10005
Enter value for projectname: 'FULL_WEBSITE'
Enter value for startdate: '01-JAN-2016'
Enter value for enddate: '01-JAN-2017'
old   1: INSERT INTO PROJECT VALUES(&PROJECTID,&PROJECTNAME,&STARTDATE,&ENDDATE)
new   1: INSERT INTO PROJECT VALUES(10005,'FULL_WEBSITE','01-JAN-2016','01-JAN-2017')

Result:-

```
PROJECTID PROJECTNAME                                              STARTDATE ENDDATE
--------- ------------------------------------------------------- --------- ---------
    10001 NEW_DATABASE                                             01-OCT-23 29-OCT-23
    10002 SQL                                                      20-DEC-21 02-FEB-22
    10003 FRONTEND                                                 23-SEP-20 30-DEC-20
    10004 BACKEND                                                  01-FEB-18 31-DEC-18
    10005 FULL_WEBSITE                                             01-JAN-16 01-JAN-17
```

Inserting records into table TEAM

INSERT INTO TEAM VALUES(&TEAMID,&TEAMNAME,&TEAMDESCRIPTION);
Enter value for teamid: 30001
Enter value for teamname: 'GREENTEAM'
Enter value for teamdescription: 'CONSIST OF 4 MEMBER'
old   1: INSERT INTO TEAM VALUES(&TEAMID,&TEAMNAME,&TEAMDESCRIPTION)
new   1: INSERT INTO TEAM VALUES(30001,'GREENTEAM','CONSIST OF 4 MEMBER')
Enter value for teamid: 30002
Enter value for teamname: 'BOSS MODE'
Enter value for teamdescription: 'CONSIST OF 3 MEMBER'
old   1: INSERT INTO TEAM VALUES(&TEAMID,&TEAMNAME,&TEAMDESCRIPTION)
new   1: INSERT INTO TEAM VALUES(30002,'BOSS MODE','CONSIST OF 3 MEMBER')

Enter value for teamid: 30003
Enter value for teamname: 'OFFICE HEROES'
Enter value for teamdescription: 'CONSIST OF 4 MEMBER'
old   1: INSERT INTO TEAM VALUES(&TEAMID,&TEAMNAME,&TEAMDESCRIPTION)
new   1: INSERT INTO TEAM VALUES(30003,'OFFICE HEROES','CONSIST OF 4 MEMBER')
Enter value for teamid: 30004
Enter value for teamname: 'DESK CHAMPION'
Enter value for teamdescription: 'CONSIST OF 5 MEMBER'
old   1: INSERT INTO TEAM VALUES(&TEAMID,&TEAMNAME,&TEAMDESCRIPTION)
new   1: INSERT INTO TEAM VALUES(30004,'DESK CHAMPION','CONSIST OF 5 MEMBER')
Enter value for teamid: 30005
Enter value for teamname: 'NEVER OVERTIME'
Enter value for teamdescription: 'CONSIST OF 5 MEMBER'
old   1: INSERT INTO TEAM VALUES(&TEAMID,&TEAMNAME,&TEAMDESCRIPTION)
new   1: INSERT INTO TEAM VALUES(30005,'NEVER OVERTIME','CONSIST OF 5 MEMBER')
Enter value for teamid: 30006
Enter value for teamname: 'THE WATER'
Enter value for teamdescription: 'CONSIST OF 2 MEMBER'
old   1: INSERT INTO TEAM VALUES(&TEAMID,&TEAMNAME,&TEAMDESCRIPTION)
new   1: INSERT INTO TEAM VALUES(30006,'THE WATER','CONSIST OF 2 MEMBER')

Result:-

```
    TEAMID TEAMNAME                TEAMDESCRIPTION
---------- -------------------- --------------------------
     30001 GREENTEAM               CONSIST OF 4 MEMBER
     30002 BOSS MODE               CONSIST OF 3 MEMBER
     30003 OFFICE HEROES           CONSIST OF 4 MEMBER
     30004 DESK CHAMPION           CONSIST OF 5 MEMBER
     30005 NEVER OVERTIME          CONSIST OF 5 MEMBER
     30006 THE WATER               CONSIST OF 2 MEMBER
```

Inserting records in table PROJECT_ASSIGNMENT

INSERT INTO PROJECT_ASSIGNMENT VALUES(&PROJECTID,&TEAMID);
Enter value for projectid: 10003
Enter value for teamid: 30005
old   1: INSERT INTO PROJECT_ASSIGNMENT VALUES(&PROJECTID,&TEAMID)
new   1: INSERT INTO PROJECT_ASSIGNMENT VALUES(10003,30005)
Enter value for projectid: 10005
Enter value for teamid: 30006
old   1: INSERT INTO PROJECT_ASSIGNMENT VALUES(&PROJECTID,&TEAMID)
new   1: INSERT INTO PROJECT_ASSIGNMENT VALUES(10005,30006)

Results:-

```
PROJECTID    TEAMID
---------- ----------
    10003      30005
    10005      30006
```

Inserting records in table DEVELOPER

INSERT INTO DEVELOPER VALUES(&DEVELOPERID,&FIRSTNAME,&LASTNAME,&WORKEXPERIENCE);
Enter value for developerid: 20001
Enter value for firstname: 'RAHUL'
Enter value for lastname: 'SAH'
Enter value for workexperience: 1
old   1: INSERT INTO DEVELOPER VALUES(&DEVELOPERID,&FIRSTNAME,&LASTNAME,&WORKEXPERIENCE)
new   1: INSERT INTO DEVELOPER VALUES(20001,'RAHUL','SAH',1)
Enter value for developerid: 20002
Enter value for firstname: 'ROHIT'
Enter value for lastname: 'SAH'
Enter value for workexperience: 2
old   1: INSERT INTO DEVELOPER VALUES(&DEVELOPERID,&FIRSTNAME,&LASTNAME,&WORKEXPERIENCE)
new   1: INSERT INTO DEVELOPER VALUES(20002,'ROHIT','SAH',2)
Enter value for developerid: 20003
Enter value for firstname: 'SUDHIR'
Enter value for lastname: 'MANDAL'
Enter value for workexperience: 1
old   1: INSERT INTO DEVELOPER VALUES(&DEVELOPERID,&FIRSTNAME,&LASTNAME,&WORKEXPERIENCE)
new   1: INSERT INTO DEVELOPER VALUES(20003,'SUDHIR','MANDAL',1)
Enter value for developerid: 20004
Enter value for firstname: 'SATYAM'
Enter value for lastname: 'RAY'
Enter value for workexperience: 3
old   1: INSERT INTO DEVELOPER VALUES(&DEVELOPERID,&FIRSTNAME,&LASTNAME,&WORKEXPERIENCE)
new   1: INSERT INTO DEVELOPER VALUES(20004,'SATYAM','RAY',3)
Enter value for developerid: 20005
Enter value for firstname: 'ROHAN'
Enter value for lastname: 'YADAV'
Enter value for workexperience: 4
old   1: INSERT INTO DEVELOPER VALUES(&DEVELOPERID,&FIRSTNAME,&LASTNAME,&WORKEXPERIENCE)
new   1: INSERT INTO DEVELOPER VALUES(20005,'ROHAN','YADAV',4)

Results:-

```
DEVELOPERID FIRSTNAME          LASTNAME             WORKEXPERIENCE
----------- -------------------- -------------------- --------------
      20001 RAHUL                SAH                               1
      20002 ROHIT                SAH                               2
      20003 SUDHIR               MANDAL                            1
      20004 SATYAM               RAY                               3
      20005 ROHAN                YADAV                             4
```

Inserting records in table DEVELOPER_SKILL

INSERT INTO DEVELOPER_SKILL VALUES(&DEVELOPERID,&SKILL);
Enter value for developerid: 20001
Enter value for skill: 'JAVA'
old   1: INSERT INTO DEVELOPER_SKILL VALUES(&DEVELOPERID,&SKILL)
new   1: INSERT INTO DEVELOPER_SKILL VALUES(20001,'JAVA')
Enter value for developerid: 20002
Enter value for skill: 'ORACLE SQL'
old   1: INSERT INTO DEVELOPER_SKILL VALUES(&DEVELOPERID,&SKILL)
new   1: INSERT INTO DEVELOPER_SKILL VALUES(20002,'ORACLE SQL')
Enter value for developerid: 20003
Enter value for skill: 'FRONT END'
old   1: INSERT INTO DEVELOPER_SKILL VALUES(&DEVELOPERID,&SKILL)
new   1: INSERT INTO DEVELOPER_SKILL VALUES(20003,'FRONT END')
Enter value for developerid: 20004
Enter value for skill: 'BACKEND'
old   1: INSERT INTO DEVELOPER_SKILL VALUES(&DEVELOPERID,&SKILL)
new   1: INSERT INTO DEVELOPER_SKILL VALUES(20004,'BACKEND')
Enter value for developerid: 20005
Enter value for skill: 'WEB'
old   1: INSERT INTO DEVELOPER_SKILL VALUES(&DEVELOPERID,&SKILL)
new   1: INSERT INTO DEVELOPER_SKILL VALUES(20005,'WEB')

Results:-

```
DEVELOPERID SKILL
----------- --------------------
      20001 JAVA
      20002 ORACLE SQL
      20003 FRONT END
      20004 BACKEND
      20005 WEB
```

Inserting records in table DEVELOPER_TEAM

INSERT INTO DEVELOPER_TEAM VALUES(&TEAMID,&DEVELOPERID);
Enter value for teamid: 30001
Enter value for developerid: 20001
old   1: INSERT INTO DEVELOPER_TEAM VALUES(&TEAMID,&DEVELOPERID)

new   1: INSERT INTO DEVELOPER_TEAM VALUES(30001,20001)
Enter value for teamid: 30002
Enter value for developerid: 20002
old   1: INSERT INTO DEVELOPER_TEAM VALUES(&TEAMID,&DEVELOPERID)
new   1: INSERT INTO DEVELOPER_TEAM VALUES(30002,20002)
Enter value for teamid: 30003
Enter value for developerid: 20003
old   1: INSERT INTO DEVELOPER_TEAM VALUES(&TEAMID,&DEVELOPERID)
new   1: INSERT INTO DEVELOPER_TEAM VALUES(30003,20003)
Enter value for teamid: 30004
Enter value for developerid: 20004
old   1: INSERT INTO DEVELOPER_TEAM VALUES(&TEAMID,&DEVELOPERID)
new   1: INSERT INTO DEVELOPER_TEAM VALUES(30004,20004)
Enter value for teamid: 30005
Enter value for developerid: 20005
old   1: INSERT INTO DEVELOPER_TEAM VALUES(&TEAMID,&DEVELOPERID)
new   1: INSERT INTO DEVELOPER_TEAM VALUES(30005,20005)

Result:-

```
TEAMID DEVELOPERID
------- -----------
  30001       20001
  30002       20002
  30003       20003
  30004       20004
  30005       20005
```