

# ORACLE SQL FINAL PROJECT REPORT

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

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# **INDEX**

## **S.NO    Title    Page**

1.Creating a database.....	3
2.Creating Table.....	3-4
3.Making Primary key.....	4-5
4.Making Foreign Key.....	4-5
5.Inserting records into tables.....	5-10

## **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) NOT NULL UNIQUE,

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,  
  WORKEXPRIENCE 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: 'DATABASE'

Enter value for startdate: '01-SEP- 2023'

Enter value for enddate: '30-SEP-2023'

```
old 1: INSERT INTO PROJECT VALUES(&PROJECTID,&PROJECTNAME,&STARTDATE,&ENDDATE)
```

```
new 1: INSERT INTO PROJECT VALUES(10001,'DATABASE','01-SEP-2023','30-SEP-2023')
```

Enter value for projectid: 10002

Enter value for projectname: 'WEB\_TECH'

Enter value for startdate: '01-JUL-2023'

Enter value for enddate: '29-JUL-2023'

```
old 1: INSERT INTO PROJECT VALUES(&PROJECTID,&PROJECTNAME,&STARTDATE,&ENDDATE)
```

```
new 1: INSERT INTO PROJECT VALUES(10002,'WEB_TECH','01-JUL-2023','29-JUL-2023')
```

Enter value for projectid: 10003

Enter value for projectname: 'SQL'

Enter value for startdate: '01-AUG-2023'

Enter value for enddate: '30-OCT-2023'

```

old 1: INSERT INTO PROJECT VALUES(&PROJECTID,&PROJECTNAME,&STARTDATE,&ENDDATE)
new 1: INSERT INTO PROJECT VALUES(10003,'SQL','01-AUG-2023','30-OCT-2023')
Enter value for projectid: 10004
Enter value for projectname: 'JAVA_JDBC'
Enter value for startdate: '23-JUN-2020'
Enter value for enddate: '01-JAN-2021'
old 1: INSERT INTO PROJECT VALUES(&PROJECTID,&PROJECTNAME,&STARTDATE,&ENDDATE)
new 1: INSERT INTO PROJECT VALUES(10004,'JAVA_JDBC','23-JUN-2020','01-JAN-2021')
Enter value for projectid: 10005
Enter value for projectname: 'BACKEND'
Enter value for startdate: '31-DEC-2021'
Enter value for enddate: '01-MAR-2022'
old 1: INSERT INTO PROJECT VALUES(&PROJECTID,&PROJECTNAME,&STARTDATE,&ENDDATE)
new 1: INSERT INTO PROJECT VALUES(10005,'BACKEND','31-DEC-2021','01-MAR-2022')

```

### **Result:-**

PROJECTID	PROJECTNAME	STARTDATE	ENDDATE
10001	DATABASE	01-SEP-23	30-SEP-23
10002	WEB_TECH	01-JUL-23	29-JUL-23
10003	SQL	01-AUG-23	30-OCT-23
10004	JAVA_JDBC	23-JUN-20	01-JAN-21
10005	BACKEND	31-DEC-21	01-MAR-22

### **Inserting records into table TEAM**

```

INSERT INTO TEAM VALUES(&TEAMID,&TEAMNAME,&TEAMDESCRIPTION);
Enter value for teamid: '30001'
Enter value for teamname: 'STARTEAM'
Enter value for teamdescription: 'TEAM OF EXCELLENCE'
old 1: INSERT INTO TEAM VALUES(&TEAMID,&TEAMNAME,&TEAMDESCRIPTION)
new 1: INSERT INTO TEAM VALUES('30001','STARTEAM','TEAM OF EXCELLENCE')
Enter value for teamid: '30002'
Enter value for teamname: 'OVERTIMERS'
Enter value for teamdescription: 'NIGHT OWLS'
old 1: INSERT INTO TEAM VALUES(&TEAMID,&TEAMNAME,&TEAMDESCRIPTION)
new 1: INSERT INTO TEAM VALUES('30002','OVERTIMERS','NIGHT OWLS')
Enter value for teamid: '30003'
Enter value for teamname: 'SAVIORS'
Enter value for teamdescription: 'LAST MOMENT ACHIEVERS'
old 1: INSERT INTO TEAM VALUES(&TEAMID,&TEAMNAME,&TEAMDESCRIPTION)
new 1: INSERT INTO TEAM VALUES('30003','SAVIORS','LAST MOMENT ACHIEVERS')
Enter value for teamid: '30004'
Enter value for teamname: 'CODEWARRIORS'
Enter value for teamdescription: 'PROVIDE CODE IN NO TIME'

```

```

old 1: INSERT INTO TEAM VALUES(&TEAMID,&TEAMNAME,&TEAMDESCRIPTION)
new 1: INSERT INTO TEAM VALUES('30004','CODEWARRIORS','PROVIDE CODE IN NO TIME')
Enter value for teamid: '30005'
Enter value for teamname: 'RELIEVERS'
Enter value for teamdescription: 'THERAPY'
old 1: INSERT INTO TEAM VALUES(&TEAMID,&TEAMNAME,&TEAMDESCRIPTION)
new 1: INSERT INTO TEAM VALUES('30005','RELIEVERS','THERAPY')
Enter value for teamid: '30006'
Enter value for teamname: 'THE DIGGERS'
Enter value for teamdescription: 'DATA MINORS'
old 1: INSERT INTO TEAM VALUES(&TEAMID,&TEAMNAME,&TEAMDESCRIPTION)
new 1: INSERT INTO TEAM VALUES('30006','THE DIGGERS','DATA MINORS')

```

**Result:-**

TEAMID	TEAMNAME	TEAMDESCRIPTION
30001	STARTEAM	TEAM OF EXCELLENCE
30002	OVERTIMERS	NIGHT OWLS
30003	SAVIORS	LAST MOMENT ACHIEVERS
30004	CODEWARRIORS	PROVIDE CODE IN NO TIME
30005	RELIEVERS	THERAPY
30006	THE DIGGERS	DATA MINORS

**Inserting records in table PROJECT\_ASSIGNMENT**

```

INSERT INTO PROJECT_ASSIGNMENT VALUES(&PROJECTID,&TEAMID);
Enter value for projectid: 10004
Enter value for teamid: 30001
old 1: INSERT INTO PROJECT_ASSIGNMENT VALUES(&PROJECTID,&TEAMID)
new 1: INSERT INTO PROJECT_ASSIGNMENT VALUES(10004,30001)
Enter value for projectid: 10005
Enter value for teamid: 30004
old 1: INSERT INTO PROJECT_ASSIGNMENT VALUES(&PROJECTID,&TEAMID)
new 1: INSERT INTO PROJECT_ASSIGNMENT VALUES(10005,30004)

```

**Results:-**

PROJECTID	TEAMID
10004	30001
10005	30004

**Inserting records in table DEVELOPER**

```

INSERT INTO DEVELOPER VALUES(&DEVELOPERID,&FIRSTNAME,&LASTNAME,&WORKEXPERIENCE);
Enter value for developerid: 20001
Enter value for firstname: 'MOHD'

```

Enter value for lastname: 'KAHSIF'  
Enter value for workexperience: 1  
old 1: INSERT INTO DEVELOPER VALUES(&DEVELOPERID,&FIRSTNAME,&LASTNAME,&WORKEXPERIENCE)  
new 1: INSERT INTO DEVELOPER VALUES(20001,'MOHD','KAHSIF',1)  
Enter value for developerid: 20002  
Enter value for firstname: 'MOHD'  
Enter value for lastname: 'TABISH'  
Enter value for workexperience: 2  
old 1: INSERT INTO DEVELOPER VALUES(&DEVELOPERID,&FIRSTNAME,&LASTNAME,&WORKEXPERIENCE)  
new 1: INSERT INTO DEVELOPER VALUES(20002,'MOHD','TABISH',2)  
Enter value for developerid: 20003  
Enter value for firstname: 'ADIL'  
Enter value for lastname: 'RAZA'  
Enter value for workexperience: 3  
old 1: INSERT INTO DEVELOPER VALUES(&DEVELOPERID,&FIRSTNAME,&LASTNAME,&WORKEXPERIENCE)  
new 1: INSERT INTO DEVELOPER VALUES(20003,'ADIL','RAZA',3)  
Enter value for developerid: 20004  
Enter value for firstname: 'HASEEB'  
Enter value for lastname: 'AHMED'  
Enter value for workexperience: 2  
old 1: INSERT INTO DEVELOPER VALUES(&DEVELOPERID,&FIRSTNAME,&LASTNAME,&WORKEXPERIENCE)  
new 1: INSERT INTO DEVELOPER VALUES(20004,'HASEEB','AHMED',2)  
Enter value for developerid: 20005  
Enter value for firstname: 'ADNAN'  
Enter value for lastname: 'ALI'  
Enter value for workexperience: 4  
old 1: INSERT INTO DEVELOPER VALUES(&DEVELOPERID,&FIRSTNAME,&LASTNAME,&WORKEXPERIENCE)  
new 1: INSERT INTO DEVELOPER VALUES(20005,'ADNAN','ALI',4)

### **Results:-**

DEVELOPERID	FIRSTNAME	LASTNAME	WORKEXPERIENCE
20001	MOHD	KAHSIF	1
20002	MOHD	TABISH	2
20003	ADIL	RAZA	3
20004	HASEEB	AHMED	2
20005	ADNAN	ALI	4

### **Inserting records in table DEVELOPER\_SKILL**

INSERT INTO DEVELOPER\_SKILL VALUES(&DEVELOPERID,&SKILL);  
Enter value for developerid: 20001  
Enter value for skill: 'SQL'  
old 1: INSERT INTO DEVELOPER\_SKILL VALUES(&DEVELOPERID,&SKILL)  
new 1: INSERT INTO DEVELOPER\_SKILL VALUES(20001,'SQL')



Enter value for developerid: 20002

Enter value for skill: 'WEB'

old 1: INSERT INTO DEVELOPER\_SKILL VALUES(&DEVELOPERID,&SKILL)

new 1: INSERT INTO DEVELOPER\_SKILL VALUES(20002,'WEB')

Enter value for developerid: 20003

Enter value for skill: 'JAVA'

old 1: INSERT INTO DEVELOPER\_SKILL VALUES(&DEVELOPERID,&SKILL)

new 1: INSERT INTO DEVELOPER\_SKILL VALUES(20003,'JAVA')

Enter value for developerid: 20004

Enter value for skill: 'SOLIDWORKS'

old 1: INSERT INTO DEVELOPER\_SKILL VALUES(&DEVELOPERID,&SKILL)

new 1: INSERT INTO DEVELOPER\_SKILL VALUES(20004,'SOLIDWORKS')

Enter value for developerid: 20005

Enter value for skill: 'PYTHON'

old 1: INSERT INTO DEVELOPER\_SKILL VALUES(&DEVELOPERID,&SKILL)

new 1: INSERT INTO DEVELOPER\_SKILL VALUES(20005,'PYTHON')

### **Results:-**

DEVELOPERID	SKILL
20001	SQL
20002	WEB
20003	JAVA
20004	SOLIDWORKS
20005	PYTHON

### **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:-**

<b>TEAMID</b>	<b>DEVELOPERID</b>
30001	20001
30002	20002
30003	20003
30004	20004
30005	20005