

Assignment 2 -SQL

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Class: BTech 2nd Year

Division: B

1.

```
SELECT Projects.Project_Description, Employee.Emp_Name  
  
FROM Project_Allocation, Employee, Projects  
  
WHERE Project_Allocation.Project_Code = Projects.Project_Code  
  
AND Employee.EmpNo = Project_Allocation.EmpNo;
```

PROJECT_DESCRIPTION	EMP_NAME
1 Environment Pollution	Jhonny
2 Environment Pollution	Nayak
3 Learning Curve	Meera
4 Learning Curve	Ravi
5 Learning Curve	Nancy
6 Effects of IT	Jhonny
7 Effects of IT	Nayak
8 Effects of IT	Meera
9 Effects of IT	Hari
10 Effects of IT	Nick

2.

```
SELECT Emp_Name
```

```
FROM Employee
```

```
WHERE Emp_Status='C';
```

EMP_NAME
1 Jhonny
2 Nayak
3 Meera
4 Ravi

3.

```
SELECT Emp_Name
```

```
FROM Employee
```

```
WHERE EXTRACT(MONTH FROM Emp_Join_Date)=11;
```

	EMP_NAME
1	Hari

4.

```
SELECT Projects.Project_Description  
  
FROM Projects  
  
WHERE Project_End_Date>'01-01-2006';
```

	PROJECT_DESCRIPTION
1	Environment Pollution
2	Learning Curve

5.

```
SELECT Employee.Emp_Name
```

```
FROM Project_Allocation NATURAL JOIN Employee NATURAL JOIN
```

```
Projects
```

```
WHERE Projects.Project_Description='Effects of IT';
```

	EMP_NAME	
1	Jhonny	
2	Nayak	
3	Meera	
4	Hari	
5	Nick	

6.

```
SELECT Project_Description
```

```
FROM Projects
```

```
WHERE Project_End_Date is NULL;
```

	PROJECT_DESCRIPTION	
1	Effects of IT	

7.

```
SELECT Employee.Emp_Name  
  
FROM Project_Allocation NATURAL JOIN Employee  
  
WHERE Project_Code = 'P002' AND Emp_Proj_Release_Date IS NOT  
NULL;
```

	EMP_NAME
1	Meera

8.

```
SELECT Project_End_Date - Project_Start_Date
```

```
FROM Projects
```

```
WHERE Project_Code = 'P002';
```

	PROJECT_END_DATE-PROJECT_START_DATE	
1	+5156 06:00:00.000000	

9.

```
SELECT Emp_Name, CASE

    WHEN Emp_Proj_Release_Date IS NOT NULL THEN

        (Emp_Proj_Release_Date -

Project_Allocation.Emp_Proj_Alloc_Date)

    ELSE

        CASE WHEN Project_End_Date IS NULL THEN

            (TO_DATE(SYSDATE, 'DD-MM-YY') -

Emp_Proj_Alloc_Date)

        ELSE

            (Project_End_Date -

Emp_Proj_Alloc_Date)

        END

    END

FROM Project_Allocation NATURAL JOIN Employee NATURAL JOIN

Projects;
```

	EMP_NAME	DAYS
1	Jhonny	497
2	Jhonny	4849
3	Nayak	482
4	Nayak	4849
5	Meera	-18
6	Meera	4837
7	Ravi	32
8	Hari	4849
9	Nancy	-306
10	Nick	4831

10.

```
ALTER TABLE Projects ADD Manager_Id NUMBER(10);
```

Table PROJECTS altered.

Name	Null?	Type
-----	-----	-----
PROJECT_CODE	NOT NULL	VARCHAR2(20)
PROJECT_DESCRIPTION	NOT NULL	VARCHAR2(500)
PROJECT_START_DATE		DATE
PROJECT_END_DATE		DATE
MANAGER_ID		NUMBER(10)

11.

```
ALTER TABLE Projects ADD FOREIGN KEY(Manager_Id) REFERENCES  
Employee(EmpNo);
```

```
UPDATE Projects SET Manager_Id = 101
```

```
WHERE Project_Code = 'P001';
```

```
UPDATE Projects SET Manager_Id = 202
```

```
WHERE Project_Code = 'P002';
```

```
UPDATE Projects SET Manager_Id = 116
```

```
WHERE Project_Code = 'P003';
```

	PROJECT_CODE	PROJECT_DESCRIPTION	PROJECT_START_DATE	PROJECT_END_DATE	MANAGER_ID
1	P001	Environment Pollution	02-08-05	11-12-06	101
2	P002	Learning Curve	01-02-06	15-03-06	202
3	P003	Effects of IT	03-01-07	(null)	116

12.

```
INSERT INTO Projects
```

```
(Project_Code, Project_Description, Project_Start_Date)
```

```
VALUES('P004', 'Election Rage', '01-03-2007');
```

	PROJECT_CODE	PROJECT_DESCRIPTION	PROJECT_START_DATE	PROJECT_END_DATE	MANAGER_ID
1	P001	Environment Pollution	02-08-05	11-12-06	101
2	P002	Learning Curve	01-02-06	15-03-06	202
3	P003	Effects of IT	03-01-07	(null)	116
4	P004	Election Rage	01-03-07	(null)	(null)

13.

DELETE FROM Projects

WHERE Project_Description='Effects of IT';

PROJECT_CODE	PROJECT_DESCRIPTION	PROJECT_START_DATE	PROJECT_END_DATE	MANAGER_ID
1 P001	Environment Pollution	02-08-05	11-12-06	101
2 P002	Learning Curve	01-02-06	15-03-06	202
3 P004	Election Rage	01-03-07	(null)	(null)

14.

```
SELECT Project_Description
```

```
FROM Projects
```

```
WHERE Project_End_Date IS NULL OR (Project_End_Date-  
Project_Start_Date) >=395;
```

	PROJECT_DESCRIPTION	
1	Environment Pollution	
2	Election Rage	

15.

```
SELECT Emp_Name, Project_Description FROM Project_Allocation  
NATURAL JOIN Employee NATURAL JOIN Projects WHERE  
Emp_Proj_Alloc_Date<'01-03-2007' AND (Emp_Proj_Release_Date is  
NULL OR Emp_Proj_Release_Date>='01-02-2006');
```

	EMP_NAME	PROJECT_DESCRIPTION
1	Jhonny	Environment Pollution
2	Nayak	Environment Pollution
3	Ravi	Learning Curve
4	Nancy	Learning Curve