EMPLOYEE_MANAGEMENT

LOCATION		LOCID	LOCNAME			

DEPARTMENT		DEPTID	DEPTNAME	LOCID		

PROJECT		PROJID	PROJNAME	DEPTID		

EMPLOYEE		EMPID	EMPNAME	EMPEMAIL	EMPSUP	DEPTID

LOCATION

LOCATION	LOCID	LOCNAME
	535216	Akkivaram
	535124	Akulakatta
	535573	Alajangi
	535240	Alamanda
	535578	BHIMAVARAM
	535559	CHINTADA
	535183	DEVADA

DEPARTMENT sheet

DEPTID	DEPTNAME	LOCID
111	Group Information Systems	535216
112	IDT	535124
113	Global Technology Team	535578
114	Digital Services	535216
115	Digital and Support	535240
116	Digital & Informatics Team	535124
117	BT & IS	535183
118	Business Systems	535240
119	Information Technology Services	535183
120	Innovation, Technology & Sustainability	535559
121	Digital and Technology Solutions	535573

Sheet1   LOCATION   DEPARTMENT   PROJECT   She

PROJECT sheet

PROJECT		PROJID	PROJNAME	DEPTID
		1111	PROJ1	111
		1112	PROJ2	113
		1113	PROJ3	111
		1114	PROJ4	114
		1115	PROJ5	114
		1116	PROJ6	115
		1117	PROJ7	116
		1118	PROJ8	111
		1119	PROJ9	116
		1120	PROJ10	117
		1121	PROJ11	112
		1122	PROJ12	118
		1123	PROJ13	112

Sheet1   LOCATION   DEPARTMENT   PROJECT   She

```
/* EMPLOYEE_MANAGEMENT    */
CREATE DATABASE EMPLOYEE_MANAGEMENT;

/*USE DB*/
USE EMPLOYEE_MANAGEMENT;
```

```
/* LOCATION */
CREATE TABLE LOCATION
(
        LOCID INT PRIMARY KEY,
        LOCNAME VARCHAR(50)
);

/* CREATE DEPARTMENT TABLE */

CREATE TABLE DEPARTMENT
(
        DEPTID INT PRIMARY KEY,
        DEPTNAME VARCHAR(50),
        LOCID INT FOREIGN KEY REFERENCES LOCATION(LOCID)
);


/* CREATE PROJECT TABLE */

CREATE TABLE PROJECT
(
        PROJID INT PRIMARY KEY,
        PROJNAME VARCHAR(50),
        DEPTID INT FOREIGN KEY REFERENCES DEPARTMENT(DEPTID)
);

/* CREATE EMPLOYEE TABLE */

CREATE TABLE EMPLOYEE
(
        EMPID INT PRIMARY KEY,
        EMPNAME VARCHAR(50),
        EMPEMAIL VARCHAR(100),
        EMPSUP INT,
        DEPTID INT FOREIGN KEY REFERENCES DEPARTMENT(DEPTID)
);


/* LOCATION TABLE INSERTION */

INSERT INTO LOCATION VALUES (535216 , 'Akkivaram')
INSERT INTO LOCATION VALUES (535124, 'Akulakatta')
INSERT INTO LOCATION VALUES (535573, 'Alajangi')
```

```sql
INSERT INTO LOCATION VALUES (535240, 'Alamanda')
INSERT INTO LOCATION VALUES (535578, 'BHIMAVARAM')
INSERT INTO LOCATION VALUES (535559, 'CHINTADA')
INSERT INTO LOCATION VALUES (535183, 'DEVADA')

/* PRINT ALL THE DATA */

SELECT * FROM LOCATION;


/* TO ARRANGE THE LOCID IN DESC ORDER */
SELECT * FROM LOCATION
ORDER BY LOCID DESC;

/* TO ARRANGE THE LOCID IN ASC ORDER */
SELECT * FROM LOCATION
ORDER BY LOCNAME

/* DISPLAY ALL THE REC WITH LOCID > 535240 */
SELECT * FROM LOCATION
WHERE LOCID >535240


/* INSERT ALL DETAILS WRT DEPARTMENT TABLE */
INSERT INTO DEPARTMENT VALUES (111,'Group Information Systems',535216)
INSERT INTO DEPARTMENT VALUES (112,'IDT',535124)
INSERT INTO DEPARTMENT VALUES (113,'Global Technology Team',535578)
INSERT INTO DEPARTMENT VALUES (114,'Digital Services',535216)
INSERT INTO DEPARTMENT VALUES (115,'Digital and Support',        535240)
INSERT INTO DEPARTMENT VALUES (116,'Digital & Informatics Team',535124)
INSERT INTO DEPARTMENT VALUES (117,'BT & IS',535183)
INSERT INTO DEPARTMENT VALUES (118,'Business Systems',         535240)
INSERT INTO DEPARTMENT VALUES (119,'Information Technology Services',535183)
INSERT INTO DEPARTMENT VALUES (120,'Innovation, Technology & Sustainability',535559)
INSERT INTO DEPARTMENT VALUES (121,'Digital and Technology Solutions',535573)


/* PRINT ALL THE DEPARTMENT DATA */

SELECT * FROM DEPARTMENT
```

```
/* PRINT DEPTID,DEPTNAME,LOCNAME WHERE LOC = 'Akulakatta' , 'BHIMAVARAM' */
SELECT DEPTID,DEPTNAME,LOCNAME
FROM DEPARTMENT,LOCATION
WHERE DEPARTMENT.LOCID  IN  (
              SELECT LOCID FROM LOCATION
              WHERE LOCNAME IN ('Akulakatta' , 'BHIMAVARAM' )
              ) AND DEPARTMENT.LOCID = LOCATION.LOCID


/* INSERT DATA TO PROJECT  */

INSERT INTO PROJECT VALUES(1111,'PROJ1',111)
INSERT INTO PROJECT VALUES(1112,'PROJ2',113)
INSERT INTO PROJECT VALUES(1113,'PROJ3',111)
INSERT INTO PROJECT VALUES(1114,'PROJ4',114)
INSERT INTO PROJECT VALUES(1115,'PROJ5',114)
INSERT INTO PROJECT VALUES(1116,'PROJ6',115)
INSERT INTO PROJECT VALUES(1117,'PROJ7',116)
INSERT INTO PROJECT VALUES(1118,'PROJ8',111)
INSERT INTO PROJECT VALUES(1119,'PROJ9',116)
INSERT INTO PROJECT VALUES(1120,'PROJ10',117)
INSERT INTO PROJECT VALUES(1121,'PROJ11',112)
INSERT INTO PROJECT VALUES(1122,'PROJ12',118)
INSERT INTO PROJECT VALUES(1123,'PROJ13',112)

/* DISPLAY ALL PROJECT DATA */

SELECT * FROM PROJECT


/* IIST THE DISTINCT DEPART IDS */
SELECT DISTINCT(DEPTID) FROM PROJECT




/*
3) LIST COUNT OF PROJECTS BASED ON EACH DEPT
*/
```

```
SELECT COUNT(PROJID) AS NOOFPROJ,DEPTID
FROM PROJECT
GROUP BY DEPTID


/*
4) LIST THE DEPT WITH HIGHEST NUMBER OF PROJECTS*/

SELECT MAX(Y.NOOFPROJ)
FROM (SELECT COUNT(PROJID) AS NOOFPROJ
FROM PROJECT
GROUP BY DEPTID
) Y


--ANOTHER SQL SYNTAX
SELECT TOP 1  COUNT(PROJID) AS NOOFPROJ,DEPTID
FROM PROJECT
GROUP BY DEPTID
ORDER BY COUNT(*) DESC


/* ALL INSTANCES OF MAX DEPT */

SELECT COUNT(PROJID) AS NOOFPROJ,DEPTID
FROM PROJECT
GROUP BY DEPTID
HAVING COUNT(PROJID) >= (SELECT MAX(Y.NOOFPROJ)
                FROM (SELECT COUNT(PROJID) AS NOOFPROJ
                FROM PROJECT
                GROUP BY DEPTID
                ) Y)
```