**ITW2431 SQL statements**

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**Step 0:**

**Create a database called ‘company’**

**Step 1:**

CREATE TABLE department

(dept\_no VARCHAR(4) NOT NULL,

dept\_name VARCHAR(25) NOT NULL,

location VARCHAR(30) NULL,

CONSTRAINT department\_PK PRIMARY KEY (dept\_no));

CREATE TABLE employee

(emp\_no INTEGER NOT NULL,

emp\_fname VARCHAR2(20) NOT NULL,

emp\_lname VARCHAR2(20) NOT NULL,

CONSTRAINT employee\_PK PRIMARY KEY (emp\_no),

CONSTRAINT employee\_FK FOREIGN KEY (dept\_no) REFERENCES department(dept\_no));

CREATE TABLE project

(project\_no VARCHAR(4) NOT NULL,

project\_name VARCHAR(25) NOT NULL,

budget FLOAT NULL,

CONSTRAINT project\_PK PRIMARY KEY (project\_no);

CREATE TABLE works\_on

(job VARCHAR(15) NULL,

enter\_date DATETIME NULL,

CONSTRAINT works\_on\_PK PRIMARY KEY (emp\_no, project\_no),

CONSTRAINT works\_on\_FK1 FOREIGN KEY (emp\_no) REFERENCES employee(emp\_no),

CONSTRAINT works\_on\_FK2 FOREIGN KEY (project\_no) REFERENCES project(project\_no));

**Step 2:**

**‘department’ data Insert Into SQL:**

INSERT INTO department VALUES(‘d1’, ‘Research’, ‘Dallas’);

INSERT INTO department VALUES(‘d2’, ‘Accounting’, ‘Seattle’);

INSERT INTO department VALUES(‘d3’, ‘Marketing’, ‘Atlanta’);

**‘employee’ data Insert Into SQL:**

INSERT INTO employee VALUES(25348, ‘Matthew’, ‘Smith’, ‘d3’);

INSERT INTO employee VALUES(10102, ‘Ann’, ‘Jones’, ‘d3’);

INSERT INTO employee VALUES(18316, ‘John’, ‘Barrimore’, ‘d1’);

INSERT INTO employee VALUES(29346, ‘James’, ‘James’, ‘d2’);

INSERT INTO employee VALUES(9031, ‘Elke’, ‘Hansel’, ‘d2’);

INSERT INTO employee VALUES(28559, ‘Sybill’, ‘Moser’, ‘d1’);

**‘project’ data Insert Into SQL:**

INSERT INTO project VALUES(‘p1’, ‘Apollo’, 120000);

INSERT INTO project VALUES(‘p2’, ‘Gemini’, 95000);

INSERT INTO project VALUES(‘p3’, ‘Mercury’, 186500);

**‘works\_on’ data Insert Into SQL:**

INSERT INTO works\_on VALUES(10102, ‘p1’, ‘Analyst’, 2006.10.1);

INSERT INTO works\_on VALUES(10102, ‘p3’, ‘Manager’, 2008.1.1);

INSERT INTO works\_on VALUES(25348, ‘p2’, ‘Clerk’, 2007.2.15);

INSERT INTO works\_on VALUES(18316, ‘p2’, ‘’, 2007.6.1);

INSERT INTO works\_on VALUES(29346, ‘p2’, ‘’, 2006.12.15);

INSERT INTO works\_on VALUES(9031, ‘p1’, ‘Manager’, 2007.4.15);

INSERT INTO works\_on VALUES(28559, ‘p1’, ‘’, 2007.8.1);

INSERT INTO works\_on VALUES(28559, ‘p2’, ‘Clerk’, 2008.2.1);

INSERT INTO works\_on VALUES(9031, ‘p3’, ‘Clerk’, 2006.11.15);

INSERT INTO works\_on VALUES(29346, ‘p1’, ‘Clerk’);

**STEP 3:**

Diagram

Description automatically generated