**Example 6.1**

USE sample;  
SELECT dept\_no, dept\_name, location  
 FROM department;

**Example 6.2**

USE sample;  
SELECT dept\_name, dept\_no  
   FROM department  
   WHERE location = 'Dallas';

**Example 6.3**

USE sample;  
SELECT emp\_lname, emp\_fname   
   FROM employee  
   WHERE emp\_no >= 15000;

**Example 6.4**

USE sample;  
SELECT project\_name  
   FROM project

  WHERE budget\*0.51 > 60000;

**Example 6.5**

USE sample;  
SELECT project\_no, emp\_no  
   FROM works\_on  
   WHERE project\_no = 'p1'  
   OR project\_no = 'p2';

**Example 6.6 (Example of an Illegal Statement)**

USE sample;  
SELECT emp\_fname, DISTINCT emp\_no  
        FROM employee  
       WHERE emp\_lname = 'Moser';

**Example 6.7**

USE sample;  
SELECT emp\_no, emp\_fname, emp\_lname  
   FROM employee  
   WHERE emp\_no = 25348 AND emp\_lname = 'Smith'  
   OR emp\_fname = 'Matthew' AND dept\_no = 'd1';

SELECT emp\_no, emp\_fname, emp\_lname  
   FROM employee  
   WHERE ((emp\_no = 25348 AND emp\_lname = 'Smith')  
   OR emp\_fname ='Matthew') AND dept\_no = 'd1';

**Example 6.8**

USE sample  
SELECT emp\_no, emp\_lname  
   FROM employee  
   WHERE NOT dept\_no = 'd2';

**Example 6.9**

USE sample;  
SELECT emp\_no, emp\_fname, emp\_lname  
   FROM employee  
   WHERE emp\_no IN (29346, 28559, 25348);

**Example 6.10**

USE sample;  
SELECT emp\_no, emp\_fname, emp\_lname, dept\_no  
   FROM employee  
   WHERE emp\_no NOT IN (10102, 9031);

**Example 6.11**

USE sample;  
SELECT project\_name, budget  
   FROM project  
   WHERE budget BETWEEN 60000 AND 300000;

**Example 6.12**

USE sample;  
SELECT project\_name, budget  
   FROM project  
   WHERE budget >= 60000 AND budget <= 300000;

**Example 6.13**

USE sample;  
SELECT project\_name  
  FROM project  
   WHERE budget NOT BETWEEN 100000 AND 150000;

**Example 6.14**

USE sample;  
SELECT emp\_no, project\_no  
   FROM works\_on  
   WHERE project\_no = 'p2'  
   AND job IS NULL;

**Example 6.15**

USE sample;  
SELECT project\_no, job   
   FROM works\_on  
   WHERE  job <> NULL;

**Example 6.16**

USE sample;  
SELECT emp\_no, ISNULL(job, 'Job unknown') AS task  
   FROM works\_on   
   WHERE project\_no = 'p1';

**Example 6.17**

USE sample;  
SELECT emp\_fname, emp\_lname, emp\_no  
   FROM employee  
   WHERE emp\_fname LIKE '\_a%';

**Example 6.18**

USE sample;  
SELECT \*  
   FROM department  
   WHERE location LIKE '[C-F]%';

**Example 6.19**

USE sample;  
SELECT emp\_no, emp\_fname, emp\_lname  
   FROM employee  
   WHERE emp\_lname LIKE '[^J-O]%'  
   AND emp\_fname LIKE '[^EZ]%';

**Example 6.20**

USE sample;  
SELECT emp\_no, emp\_fname, emp\_lname  
   FROM employee  
   WHERE emp\_fname NOT LIKE '%n';

**Example 6.21**

USE sample;  
SELECT project\_no, project\_name  
   FROM project  
   WHERE project\_name LIKE '%g%';

**Example 6.22**

USE sample;  
SELECT job  
   FROM works\_on  
 GROUP BY job;

**Example 6.23**

USE sample;  
SELECT project\_no, job  
   FROM works\_on  
  GROUP BY project\_no, job;

**Example 6.24 (Example of an Illegal Statement)**

USE sample;  
SELECT emp\_lname, MIN(emp\_no)  
   FROM employee;

**Example 6.25**

USE sample;  
SELECT MIN(emp\_no) AS min\_employee\_no  
   FROM employee;

**Example 6.26**

USE sample;  
SELECT emp\_no, emp\_lname  
  FROM employee  
   WHERE emp\_no =  
   (SELECT MIN(emp\_no)  
        FROM employee);

**Example 6.27**

USE sample;  
SELECT emp\_no  
 FROM works\_on  
   WHERE enter\_date =  
   (SELECT MAX(enter\_date)  
       FROM works\_on  
       WHERE job = 'Manager');

**Example 6.28**

USE sample;  
SELECT SUM (budget) sum\_of\_budgets  
   FROM project;

**Example 6.29**

SELECT SUM (budget) sum\_of\_budgets  
 FROM project  
 GROUP BY();

**Example 6.30**

USE sample;  
SELECT AVG(budget) avg\_budget  
   FROM project  
   WHERE budget > 100000;

**Example 6.31**

USE sample;  
SELECT project\_no, COUNT(DISTINCT job) job\_count  
  FROM works\_on  
   GROUP BY project\_no;

**Example 6.32**

USE sample;  
SELECT job, COUNT(\*) job\_count  
   FROM works\_on  
  GROUP BY job;

**Example 6.33**

USE sample;  
SELECT project\_no  
   FROM works\_on  
   GROUP BY project\_no  
   HAVING COUNT(\*) < 4;

**Example 6.34**

USE sample;  
SELECT job  
   FROM works\_on  
  GROUP BY job  
   HAVING job LIKE 'M%';

**Example 6.35**

USE sample;  
SELECT emp\_fname, emp\_lname, dept\_no  
   FROM employee  
 WHERE emp\_no < 20000  
   ORDER BY emp\_lname, emp\_fname;

**Example 6.36**

USE sample;  
SELECT project\_no, COUNT(\*) emp\_quantity  
   FROM works\_on  
   GROUP BY project\_no  
   ORDER BY 2 DESC