```
CREATE TABLE products_tbl (
        PROD_ID INT,
 3
        PROD_DESC VARCHAR(50),
4
        COST DECIMAL(10,2)
 5);
6
7 INSERT INTO products_tbl (PROD_ID, PROD_DESC, COST) VALUES
8 (11235, 'WITCH COSTUME', 29.99),
9 (222, 'PLASTIC PUMPKIN 18 INCH', 7.75),
10 (13, 'FALSE PARAFFIN TEETH', 1.1),
11 (90, 'LIGHTED LANTERNS', 14.5),
12 (15, 'ASSORTED COSTUMES', 10.00),
13 (19, 'CANDY CORN', 1.35),
14 (6, 'PUMPKIN CANDY', 1.45),
15 (87, 'PLASTIC SPIDERS', 1.05),
16 (119, 'ASSORTED MASKS', 4.95);
```

a. QUERY - SELECT * FROM products_tbl;

PROD_ID	PROD_DESC varchar(50)	COST decimal(10,2)
11235	WITCH COSTUME	29.99
222	PLASTIC PUMPKIN 18 INCH	7.75
13	FALSE PARAFFIN TEETH	1.10
90	LIGHTED LANTERNS	14.50
15	ASSORTED COSTUMES	10.00
19	CANDY CORN	1.35
6	PUMPKIN CANDY	1.45
87	PLASTIC SPIDERS	1.05
119	ASSORTED MASKS	4.95

2.

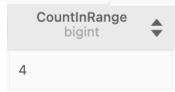
a. SELECT AVG(COST) AS AverageCost FROM products_tbl;



 SELECT COUNT(*) AS CountBetweenOneAndTwo FROM products_tbl WHERE COST > 1 AND COST < 2;



SELECT COUNT(*) AS CountInRange FROM products_tbl WHERE (COST BETWEEN 10 AND 15) OR (COST BETWEEN 3 AND 8);



d. SELECT COUNT(*) AS CountOutRange FROM products_tbl WHERE COST < 5 OR COST > 10;



e. SELECT MAX(COST) AS MaxCost FROM products tbl;



f. SELECT MIN(COST) AS MinCost FROM products tbl;



g. SELECT SUM(COST) AS TotalCost FROM products_tbl;



h. SELECT ROUND(COST) AS NEAREST_INTEGER_COST FROM products_tbl;



i. SELECT TRUNCATE(COST, 0) AS TruncatedCost FROM products_tbl;



j. SELECT PROD_ID FROM products_tbl WHERE LENGTH(PROD_ID) IN (5, 3);



3. .

a.

```
1 ALTER TABLE products_tbl ADD COLUMN STORES VARCHAR(50);

2 UPDATE products_tbl SET STORES = 'PARTY CITY' WHERE PROD_ID = 11235;

4 UPDATE products_tbl SET STORES = 'TOYS R US' WHERE PROD_ID = 222;

5 UPDATE products_tbl SET STORES = 'WALGREENS' WHERE PROD_ID = 13;

6 UPDATE products_tbl SET STORES = 'WALMART' WHERE PROD_ID = 90;

7 UPDATE products_tbl SET STORES = 'COSTCO' WHERE PROD_ID = 15;

8 UPDATE products_tbl SET STORES = 'SAFEWAY' WHERE PROD_ID = 19;

9 UPDATE products_tbl SET STORES = "TRADER JOE'S" WHERE PROD_ID = 6;

10 UPDATE products_tbl SET STORES = 'DOLLAR TREE' WHERE PROD_ID = 87;

11 UPDATE products_tbl SET STORES = 'TARGET' WHERE PROD_ID = 119;
```

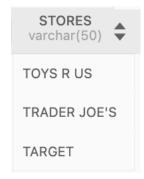
b. SELECT * FROM products tbl;



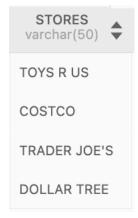
a. SELECT STORES FROM products_tbl WHERE STORES LIKE 'W%';



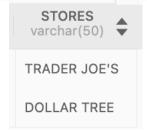
b. SELECT STORES FROM products_tbl WHERE STORES LIKE 'T%';



c. SELECT STORES FROM products_tbl WHERE STORES LIKE '%O%';



d. SELECT STORES FROM products tbl WHERE LENGTH(STORES) > 10;



e. SELECT STORES FROM products_tbl WHERE STORES LIKE '%Y%';



f. SELECT STORES FROM products_tbl WHERE STORES LIKE '%AL%';



```
CREATE TABLE emp (
        empno INT PRIMARY KEY,
        ename VARCHAR(10),
      job VARCHAR(9),
 4
 5
        mgr INT NULL,
        hiredate DATE,
        sal NUMERIC(7,2),
8
       comm NUMERIC(7,2) NULL,
9
        dept INT
10 );
11
12
    BEGIN;
13
14 INSERT INTO emp VALUES
        (1, 'JOHNSON', 'ADMIN', 6, '1990-12-17', 18000, NULL, 4);
16
17 INSERT INTO emp VALUES
18
       (2, 'HARDING', 'MANAGER', 9, '1998-02-02', 52000, 300, 3);
19
20 INSERT INTO emp VALUES
21
       (3, 'TAFT', 'SALES', 1, '1996-01-02', 25000, 500, 3);
22
23 INSERT INTO emp VALUES
24
        (4, 'HOOVER', 'SALES', 1, '1990-04-02', 27000, NULL, 3);
25
26 INSERT INTO emp VALUES
27
        (5, 'LINCOLN', 'TECH', 6, '1994-03-06', 22500, 1400, 4);
28
29 INSERT INTO emp VALUES
30
       (6, 'GARFIELD', 'MANAGER', 9, '1993-05-01', 54000, NULL, 4);
31
32 INSERT INTO emp VALUES
33
       (7, 'POLK', 'TECH', 6, '1997-09-22', 25000, NULL, 4);
34
35 INSERT INTO emp VALUES
36
       (8, 'GRANT', 'ENGINEER', 10, '1997-03-30', 32000, NULL, 2);
37
38 INSERT INTO emp VALUES
39
        (9, 'JACKSON', 'CEO', NULL, '1990-01-01', 75000, NULL, 4);
40
41 INSERT INTO emp VALUES
42
       (10, 'FILLMORE', 'MANAGER', 9, '1994-08-09', 56000, NULL, 2);
43
44 INSERT INTO emp VALUES
45
       (11, 'ADAMS', 'ENGINEER', 10, '1996-03-15', 34000, NULL, 2);
46
47
    INSERT INTO emp VALUES
48
       (12, 'WASHINGTON', 'ADMIN', 6, '1998-04-16', 18000, NULL, 4);
49
50 INSERT INTO emp VALUES
51
        (13, 'MONROE', 'ENGINEER', 10, '2000-12-03', 30000, NULL, 2);
52
53 INSERT INTO emp VALUES
        (14, 'ROOSEVELT', 'CPA', 9, '1995-10-12', 35000, NULL, 1);
55
56
57 END;
```

a. SELECT * FROM emp;									
* empno int \$	ename varchar(10)	job varchar(9) ♣	mgr int 💠	hiredate date	sal decimal(7,2) ♣	comm decimal(7,2)	dept int \$		
1	JOHNSON	ADMIN	6	1990-12-17	18000.00	(NULL)	4		
2	HARDING	MANAGER	9	1998-02-02	52000.00	300.00	3		
3	TAFT	SALES	1	1996-01-02	25000.00	500.00	3		
4	HOOVER	SALES	1	1990-04-02	27000.00	(NULL)	3		
5	LINCOLN	TECH	6	1994-03-06	22500.00	1400.00	4		
6	GARFIELD	MANAGER	9	1993-05-01	54000.00	(NULL)	4		
7	POLK	TECH	6	1997-09-22	25000.00	(NULL)	4		
8	GRANT	ENGINEER	10	1997-03-30	32000.00	(NULL)	2		
9	JACKSON	CEO	(NULL)	1990-01-01	75000.00	(NULL)	4		
10	FILLMORE	MANAGER	9	1994-08-09	56000.00	(NULL)	2		
11	ADAMS	ENGINEER	10	1996-03-15	34000.00	(NULL)	2		
12	WASHINGTON	ADMIN	6	1998-04-16	18000.00	(NULL)	4		
13	MONROE	ENGINEER	10	2000-12-03	30000.00	(NULL)	2		
14	ROOSEVELT	CPA	9	1995-10-12	35000.00	(NULL)	1		

```
CREATE TABLE dept (
 2
        deptno INT NOT NULL,
        dname VARCHAR(14),
        loc VARCHAR(13)
 4
 5
    );
 6
 7
    BEGIN;
 8
9
    INSERT INTO dept VALUES
10
        (1, 'ACCOUNTING', 'ST LOUIS');
11
12
    INSERT INTO dept VALUES
13
        (2, 'RESEARCH', 'NEW YORK');
14
    INSERT INTO dept VALUES
15
16
        (3, 'SALES', 'ATLANTA');
17
18
    INSERT INTO dept VALUES
        (4, 'OPERATIONS', 'SEATTLE');
19
20
21
    END;
```

a.

b. SELECT * FROM dept;

