

1a

```
SELECT COUNT(DISTINCT sku.sku)
FROM skuinfo sku, skstinfo skst, trnsact t
WHERE sku.sku = skst.sku AND sku.sku = t.sku AND t.sku = skst.sku
```

1b

```
SELECT DISTINCT s.store, COUNT(s.sku) FROM trnsact t, skstinfo s
WHERE t.sku = s.sku AND t.store = s.store
GROUP BY s.store;
```

2a

```
SELECT COUNT(DISTINCT store)
FROM strinfo
```

```
SELECT COUNT(DISTINCT store)
FROM skstinfo
```

```
SELECT COUNT(DISTINCT store)
FROM store_msa
```

```
SELECT COUNT(DISTINCT store)
FROM trnsact
```

2b

```
SELECT DISTINCT str.store
FROM trnsact t, store_msa m, skstinfo skst, strinfo str
WHERE t.store = m.store AND m.store = skst.store AND skst.store = str.store AND str.store = t.store
```

3

```
SELECT *
FROM trnsact t LEFT JOIN skstinfo s
ON t.store = s.store AND t.sku = s.sku
WHERE s.store IS NULL AND s.sku IS NULL
SAMPLE 10
```

4

```
SELECT SUM(t.amt-s.cost*t.quantity)/COUNT(DISTINCT t.saledate) AS profit
FROM trnsact t, skstinfo s
WHERE t.sku = s.sku AND t.store = s.store AND s.cost IS NOT NULL AND t.amt IS NOT NULL
AND t.quantity IS NOT NULL AND t.saledate IS NOT NULL
GROUP BY t.register
HAVING t.register = 640
```

5

```
SELECT TOP 3 t.saledate, SUM(t.amt-s.cost*t.quantity) AS profit
FROM trnsact t, skstinfo s
WHERE t.sku = s.sku AND t.store = s.store AND s.cost IS NOT NULL AND t.amt IS NOT NULL
AND t.quantity IS NOT NULL AND t.saledate IS NOT NULL
GROUP BY t.saledate
ORDER BY profit DESC
```

```
SELECT TOP 3 saledate, SUM(amt)
FROM trnsact
WHERE amt IS NOT NULL AND quantity IS NOT NULL AND saledate IS NOT NULL
GROUP BY saledate
ORDER BY SUM(amt) DESC
```

6

```
SELECT MAX(amt), MIN(amt)
FROM trnsact
WHERE amt IS NOT NULL AND quantity IS NOT NULL AND saledate IS NOT NULL
```

7

```
SELECT s.dept, d.deptdesc, COUNT(DISTINCT s.brand)
FROM skuinfo s LEFT JOIN deptinfo d
ON d.dept = s.dept
GROUP BY s.dept, d.deptdesc
HAVING COUNT(DISTINCT s.brand) > 100
```

8

```
SELECT DISTINCT skst.sku, d.deptdesc
FROM skstinfo skst
LEFT JOIN skuinfo s ON s.sku = skst.sku
LEFT JOIN deptinfo d ON s.dept = d.dept
WHERE skst.sku = 5020024
```

9

```
SELECT TOP 10 d.dept, d.deptdesc, s.brand, s.style, s.color, sum(t.amt)
FROM trnsact t
LEFT JOIN skuinfo s ON s.sku = t.sku
LEFT JOIN deptinfo d ON s.dept = d.dept
GROUP BY d.dept, d.deptdesc, s.brand, s.style, s.color
ORDER BY sum(t.amt) DESC;
```

10

```
SELECT TOP 10 m.state, m.zip, m.store, sum(t.amt)
FROM store_msa m RIGHT JOIN trnsact t
ON m.store = t.store
GROUP BY m.state, m.zip, m.store
ORDER BY sum(t.amt) DESC
```