ITEMSAMPLE

ItemID	ItemCost
1001	2000
1002	5000
1003	10000
1004	6000
1005	3000
1006	7000
1007	1000
1008	2500
1009	15000
1010	17500

Display the top-3 most expensive items.

Display the top-3 most expensive items.

SELECT ItemID, ItemCost
FROM ItemSample I
ORDER BY ItemCost DESC;

-		ItemID, It	emCost
2	FROM It	:emSample I	
3	ORDER B	Y ItemCost	DESC;
	ITEMID	ITEMCOST	
	1010	17500	
	1009	15000	
	1003	10000	
	1006	7000	
	1004	6000	
	1002	5000	
	1005	3000	
	1008	2500	
	1001	2000	
	1007	1000	

The query above only shows the order of all item from the most to the least expensive.

Display the top-3 most expensive items.

```
SELECT ItemID, ItemCost
FROM (SELECT ItemID, ItemCost
         FROM ItemSample I
         ORDER BY ItemCost DESC)
WHERE | ROWNUM <= 3;</pre>
```

The two queries below use ROWNUM and RANK, both of which are operators provided by ORACLE DBMS. They can be used to answer the query, but we do not allow the use of these in our assignment.

1010

1009

1003

17500

15000

10000

SQL> SELECT ItemID, ItemCost
2 FROM (SELECT ItemID, ItemCost, RANK () OVER (ORDER BY ItemCost DESC) AS RANK
3 FROM ItemSample I
4 ORDER BY RANK)
5 WHERE RANK <= 3;
ITEMID ITEMCOST

Display the top-3 most expensive items.

10000

The suggested solution is to use nested

query called correlated sub-query as

shown.

1003

ITEMSAMPLE 11

ITEMSAMPLE 12

It	temID	ItemCost	ItemID	ItemCost	
	001	2000	1001		2000
1	002	5000	1002		5000
1	003	10000	1003	—	10000
1	004	6000	1004	*	6000
1	005	3000	1005		3000

NOTE:

For this illustration, let's say we have 5 instances/records only

```
For Record 1 (1001, 2000)

SELECT I1.ItemID, I1.ItemCost
FROM ItemSample I1

WHERE 3 >= COUNT(*) = 5

(SELECT COUNT(*)
FROM ItemSample I2
WHERE I1.ItemCost <= I2.ItemCost);
```

ITEMSAMPLE 11

For Record 2 (1002, 5000)

ITEMSAMPLE 12

	ItemID	ItemCost	Iteml	D ItemCost
	1001	2000	1001	2000
/	1002	5000	1002	5000
/	1003	10000	1003	10000
/	1004	6000	1004	6000
_	1005	3000	1005	3000

NOTE:

For this illustration, let's say we have 5 instances/records only

```
SELECT I1.ItemID, I1.ItemCost
FROM ItemSample I1
WHERE 3 >=
  (SELECT COUNT(*) COUNT(*) = 3
FROM ItemSample I2
WHERE I1.ItemCost <= I2.ItemCost);</pre>
```