### CUSTOMERSAMPLE

CustID	Address
100	Bundoora
200	Preston
300	Melbourne

#### **ITEMSAMPLE**

ItemID	ItemCost
1001	2000
1002	5000
1003	10000

#### **PURCHASESAMPLE**

CustID	ItemID	Qtt
100	1001	1
100	1002	1
200	1001	1
200	1003	1

#### HIRESAMPLE

CustID	ItemID	Fee
100	1001	200
200	1002	500
300	1003	1000

# Display the total amount of purchase made by every customer in the database.

```
SELECT C.CustID, SUM(P.Qtt*I.ItemCost)
FROM ItemSample I, PurchaseSample P, CustomerSample C
WHERE C.CustID = P.CustID
AND P.ItemID = I.ItemID
GROUP BY C.CustID;
```

# Display the total amount of purchase made by every customer in the database.

```
SELECT C.CustID, SUM(P.Qtt*I.ItemCost)
FROM ItemSample I, PurchaseSample P, CustomerSample C
WHERE C.CustID = P.CustID (+)
AND P.ItemID = I.ItemID (+)
GROUP BY C.CustID;
```

### **NVL** Expression

NVL (expr1, expr2)

NVL lets you replace null (returned as a blank) with a string in the results of a query. If expr1 is null, then NVL returns expr2. If expr1 is not null, then NVL returns expr1.

# Display the total amount of purchase made by every customer in the database.

```
SELECT C.CustID, NVL(SUM(P.Qtt*I.ItemCost), 0)
FROM ItemSample I, PurchaseSample P, CustomerSample C
WHERE C.CustID = P.CustID (+)
AND P.ItemID = I.ItemID (+)
GROUP BY C.CustID;
```

### Temporary Table in FROM clause

```
SELECT R1.xxx, R2.xxx

FROM (SELECT xxx) R1, (SELECT xxx) R2

WHERE ...
```

Display the total amount of transactions (purchase and hire) made by every customer in the database.

```
SELECT R1.CustID, R1.TotalPurchase + R2.TotalHire
FROM
   SELECT C.CustID, NVL(SUM(P.Qtt*I.ItemCost), 0) AS TotalPurchase
   FROM ItemSample I, PurchaseSample P, CustomerSample C
   WHERE C.CustID = P.CustID (+)
   AND P.ItemID = I.ItemID (+)
   GROUP BY C.CustID
   ) R1,
   SELECT C.CustID, NVL(SUM(H.Fee), 0) AS TotalHire
   FROM HireSample H, CustomerSample C
   WHERE C.CustID = H.CustID (+)
   GROUP BY C.CustID
   ) R2
WHERE R1.CustID = R2.CustID;
```

```
SQL> SELECT R1.CustID, R1.TotalPurchase + R2.TotalHire
     FROM
  3
        SELECT C.CustID, NUL(SUM(P.Qtt*I.ItemCost), 0) AS TotalPurchase
        FROM ItemSample I, PurchaseSample P, CustomerSample C
  6
        WHERE C.CustID = P.CustID (+)
  7
        AND P.ItemID = I.ItemID (+)
 8
        GROUP BY C.CustID
        ) R1,
  9
10
        SELECT C.CustID, NUL(SUM(H.Fee), 0) AS TotalHire
11
        FROM HireSample H, CustomerSample C
WHERE C.CustID = H.CustID (+)
12
13
        GROUP BY C.CustID
14
        > R2
15
16
     WHERE R1.CustID = R2.CustID;
    CUSTID R1.TOTALPURCHASE+R2.TOTALHIRE
       100
                                       7200
       300
                                       1000
       200
                                      12500
```