5420 Assignment-3-Team-19

SQL Workspace name: RSANADBMS

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Team members names with Student id:

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The “Table\_Structures.sql”, “Load1.sql”, “Load2\_Part1.1.sql”, “Load2\_Part1.2.sql” and “Load2\_Part2.sql “ scripts have been uploaded and executed successfully in Oracle Apex workspace.

The various SQL code(s) for the respective scenarios in the questions are mentioned below.

**Query01:**

SELECT CUSTOMERID FROM CUSTOMER\_T

MINUS

SELECT DISTINCT(CUSTOMERID) FROM ORDER\_T;

**Result:**

|  |
| --- |
| CUSTOMERID |
| 2 |
| 5 |
| 7 |

3 rows returned in 0.00 second**s**

**Query 02:**

select \* from employee\_t e

where employeedatehired < (select max(employeedatehired) from

employee\_t k where e. Employeestate  = k.Employeestate

   group by Employeestate);

**Result:**

|  |  |  |  |
| --- | --- | --- | --- |
| EMPLOYEECITY | EMPLOYEESTATE | EMPLOYEEZIP | EMPLOYEEBIRTHDATE |
| Knoxville | TN |  | 1/5/1957 |
| Nashville | TN | 54545 | 8/15/1963 |
| Knoxville | TN | 55555 | 8/25/1964 |

|  |  |
| --- | --- |
| EMPLOYEEDATEHIRED | EMPLOYEESUPERVISOR |
| 6/12/2004 | 454-56-768 |
| 1/5/2004 | 454-56-768 |
| 1/1/2003 | 123-44-345 |

3 rows returned in 0.03 seconds

**Query03:**

Select Productid from orderline\_t

group by Productid

having sum(orderedquantity) > 20;

**Result:**

|  |
| --- |
| PRODUCTID |
| 2 |
| 3 |

2 rows returned in 0.01 seconds

**Query04**:

select e.employeename, e.employeebirthdate, m.employeename as Managername,

m.EMPLOYEEBIRTHDATE as Managerbirthdate from employee\_t e, employee\_t m

where e.employeesupervisor  = m.employeeid and

e.EMPLOYEEBIRTHDATE < m.employeebirthdate;

**Result:**

|  |  |  |  |
| --- | --- | --- | --- |
| EMPLOYEENAME | EMPLOYEEBIRTHDATE | MANAGERNAME | MANAGERBIRTHDATE |
| Phil Morris | 1/5/1957 | Robert Lewis | 8/25/1964 |
| Lawrence Haley | 8/15/1963 | Robert Lewis | 8/25/1964 |

2 rows returned in 0.03 seconds

**Query05:**

select distinct(m.employeename) from employee\_t e, employee\_t m,

employeeskills\_t es

where e.employeesupervisor = m.employeeid and

es.employeeid = e.employeeid and

es.skillid = 'BS12'

order by m.employeename;

**Result:**

|  |
| --- |
| EMPLOYEENAME |
| Phil Morris |
| Robert Lewis |

2 rows returned in 0.00 seconds

**Query06:**

select customerid, count(orderid)

from order\_t

where orderid in

(select orderid from order\_t

MINUS

select orderid from payment\_t)

group by customerid

order by customerid;

**Result:**

|  |  |
| --- | --- |
| CUSTOMERID | COUNT(ORDERID) |
| 1 | 4 |
| 3 | 1 |
| 4 | 23 |
| 6 | 3 |
| 8 | 2 |
| 9 | 3 |
| 12 | 5 |
| 13 | 1 |
| 14 | 1 |
| 15 | 1 |
| 16 | 3 |

11 rows returned in 0.07 seconds

**Query07**:

select DISTINCT (customerstate) from customer\_t MINUS Select salespersonstate

from salesperson\_t;

**Result:**

|  |
| --- |
| CUSTOMERSTATE |
| CA |
| Il |
| NJ |
| NM |
| TX |
| VA |

6 rows returned in 0.03 seconds

**Query08**:

select s.employeename , count(e.employeesupervisor) AS HeadCount

FROM employee\_t s, employee\_t e

where e.employeesupervisor = s.employeeid

group by e.employeesupervisor, s.employeename

having count(e.employeeid) > 2;

**Result:**

|  |  |
| --- | --- |
| EMPLOYEENAME | HEADCOUNT |
| Robert Lewis | 3 |

1 rows returned in 0.03 seconds

**Query09:**

select workcenterid, count(employeeid) from worksin\_t

group by workcenterid;

**Result:**

|  |  |
| --- | --- |
| WORKCENTERID | COUNT(EMPLOYEEID) |
| Tampa1 | 1 |
| SM1 | 1 |

2 rows returned in 0.03 seconds

**Query10:**

select s.vendorid, s.materialid from supplies\_t s, rawmaterial\_t r

where s.materialid = r.materialid

and s.supplyunitprice >= 4\*(r.materialstandardprice);

**Result:**

|  |  |
| --- | --- |
| VENDORID | MATERIALID |
| 3 | NC1/4 |
| 3 | NF1/4 |
| 3 | NOW1/4 |
| 3 | NST1/4 |
| 3 | NUT1/4 |
| 1 | 1/21010OAK |
| 1 | 1/21012OAK |
| 1 | 1/21016OAK |
| 1 | 1/2104OAK |
| 1 | 1/2108OAK |
| 1 | 1/21210OAK |
| 1 | 1/21212OAK |
| 1 | 1/21216OAK |
| 1 | 1/2124OAK |
| 1 | 1/2128OAK |
| 1 | 1/2210OAK |
| 1 | 1/2212OAK |
| 1 | 1/2216OAK |
| 1 | 1/224OAK |
| 1 | 1/228OAK |
| 1 | 1/2310OAK |
| 1 | 1/2312OAK |
| 1 | 1/2316OAK |
| 1 | 1/234OAK |
| 1 | 1/238OAK |
| 1 | 1/2410OAK |
| 1 | 1/2412OAK |
| 1 | 1/2416OAK |
| 1 | 1/244OAK |
| 1 | 1/248OAK |
| 1 | 1/2610OAK |
| 1 | 1/2612OAK |
| 1 | 1/2616OAK |
| 1 | 1/264OAK |
| 1 | 1/268OAK |
| 1 | 1/2810OAK |
| 1 | 1/2812OAK |
| 1 | 1/2816OAK |
| 1 | 1/284OAK |
| 1 | 1/288OAK |
| 1 | 3/41010OAK |
| 1 | 3/41012OAK |
| 1 | 3/41016OAK |
| 1 | 3/4104OAK |
| 1 | 3/4108OAK |
| 1 | 3/41210OAK |
| 1 | 3/41212OAK |
| 1 | 3/41216OAK |
| 1 | 3/4124OAK |
| 1 | 3/4128OAK |
| 1 | 3/4210OAK |
| 1 | 3/4212OAK |
| 1 | 3/4216OAK |
| 1 | 3/424OAK |
| 1 | 3/428OAK |
| 1 | 3/4310OAK |
| 1 | 3/4312OAK |
| 1 | 3/4316OAK |
| 1 | 3/434OAK |
| 1 | 3/438OAK |
| 1 | 3/4410OAK |
| 1 | 3/4412OAK |
| 1 | 3/4416OAK |
| 1 | 3/444OAK |
| 1 | 3/448OAK |
| 1 | 3/4610OAK |
| 1 | 3/4612OAK |
| 1 | 3/4616OAK |
| 1 | 3/464OAK |
| 1 | 3/468OAK |
| 1 | 3/4810OAK |
| 1 | 3/4812OAK |
| 1 | 3/4816OAK |
| 1 | 3/484OAK |
| 1 | 3/488OAK |
| 1 | 3/81010OAK |
| 1 | 3/81012OAK |
| 1 | 3/81016OAK |
| 1 | 3/8104OAK |
| 1 | 3/8108OAK |
| 1 | 3/81210OAK |
| 1 | 3/81212OAK |
| 1 | 3/81216OAK |
| 1 | 3/8124OAK |
| 1 | 3/8128OAK |
| 1 | 3/8210OAK |
| 1 | 3/8212OAK |
| 1 | 3/8216OAK |
| 1 | 3/824OAK |
| 1 | 3/828OAK |
| 1 | 3/8310OAK |
| 1 | 3/8312OAK |
| 1 | 3/8316OAK |
| 1 | 3/834OAK |
| 1 | 3/838OAK |
| 1 | 3/8410OAK |
| 1 | 3/8412OAK |
| 1 | 3/8416OAK |
| 1 | 3/844OAK |
| 1 | 3/848OAK |
| 1 | 3/8610OAK |
| 1 | 3/8612OAK |
| 1 | 3/8616OAK |
| 1 | 3/864OAK |
| 1 | 3/868OAK |
| 1 | 3/8810OAK |
| 1 | 3/8812OAK |
| 1 | 3/8816OAK |
| 1 | 3/884OAK |
| 1 | 3/888OAK |
| 1 | 5/81010OAK |
| 1 | 5/81012OAK |
| 1 | 5/81016OAK |
| 1 | 5/8104OAK |
| 1 | 5/8108OAK |
| 1 | 5/81210OAK |
| 1 | 5/81212OAK |
| 1 | 5/81216OAK |
| 1 | 5/8124OAK |
| 1 | 5/8128OAK |
| 1 | 5/8210OAK |
| 1 | 5/8212OAK |
| 1 | 5/8216OAK |
| 1 | 5/824OAK |
| 1 | 5/828OAK |
| 1 | 5/8310OAK |
| 1 | 5/8312OAK |
| 1 | 5/8316OAK |
| 1 | 5/834OAK |
| 1 | 5/838OAK |
| 1 | 5/8410OAK |
| 1 | 5/8412OAK |
| 1 | 5/8416OAK |
| 1 | 5/844OAK |
| 1 | 5/848OAK |
| 1 | 5/8610OAK |
| 1 | 5/8612OAK |
| 1 | 5/8616OAK |
| 1 | 5/864OAK |
| 1 | 5/868OAK |
| 1 | 5/8810OAK |
| 1 | 5/8812OAK |
| 1 | 5/8816OAK |
| 1 | 5/884OAK |
| 1 | 5/888OAK |

145 rows returned in 0.06 seconds

**Query11:**

select distinct(m.employeename) from employee\_t e, employee\_t m,

employeeskills\_t es

where e.employeesupervisor = m.employeeid and

es.employeeid = e.employeeid and

es.skillid = 'BS12'

order by m.employeename;

**Result:**

|  |
| --- |
| EMPLOYEENAME |
| Phil Morris |
| Robert Lewis |

2 rows returned in 0.00 seconds

**Query12**:

Select Customername, COUNT(VendorID)as NumVendors

from customer\_t c left outer join vendor\_t v

on c.customerstate = v.vendorstate

group by customername;

**Result:**

|  |  |
| --- | --- |
| CUSTOMERNAME | NUMVENDORS |
| Furniture Gallery | 0 |
| Dunkins Furniture | 0 |
| Eastern Furniture | 0 |
| Home Furnishings | 0 |
| Ikards | 0 |
| Value Furnitures | 1 |
| Flanigan Furniture | 1 |
| New Furniture | 0 |
| Janet's Collection | 0 |
| A Carpet | 0 |
| ABC Furniture Co. | 0 |
| Wild Bills | 0 |
| Impressions | 0 |
| Contemporary Casuals | 1 |

14 rows returned in 0.04 seconds

**Query13:**

select customerid, CUSTOMERNAME from customer\_t

where customerpostalcode IN (select customerpostalcode from customer\_t

where customerid = 16);

**Result:**

|  |  |
| --- | --- |
| CUSTOMERID | CUSTOMERNAME |
| 9 | A Carpet |
| 16 | ABC Furniture Co. |

2 rows returned in 0.01 seconds

**Query14:**

select c.customerid, c.customername, o.orderid

from customer\_t c left outer join order\_t o

on c.customerid = o.customerid

order by o.orderid;

**Result:**

|  |  |  |
| --- | --- | --- |
| CUSTOMERID | CUSTOMERNAME | ORDERID |
| 4 | Eastern Furniture | 1 |
| 3 | Home Furnishings | 2 |
| 1 | Contemporary Casuals | 3 |
| 6 | Furniture Gallery | 4 |
| 4 | Eastern Furniture | 5 |
| 4 | Eastern Furniture | 6 |
| 1 | Contemporary Casuals | 7 |
| 4 | Eastern Furniture | 8 |
| 6 | Furniture Gallery | 9 |
| 4 | Eastern Furniture | 19 |
| 4 | Eastern Furniture | 20 |
| 4 | Eastern Furniture | 21 |
| 4 | Eastern Furniture | 22 |
| 4 | Eastern Furniture | 23 |
| 1 | Contemporary Casuals | 24 |
| 4 | Eastern Furniture | 25 |
| 4 | Eastern Furniture | 26 |
| 4 | Eastern Furniture | 27 |
| 4 | Eastern Furniture | 28 |
| 4 | Eastern Furniture | 29 |
| 4 | Eastern Furniture | 30 |
| 15 | Janet's Collection | 31 |
| 15 | Janet's Collection | 32 |
| 15 | Janet's Collection | 34 |
| 8 | Dunkins Furniture | 35 |
| 4 | Eastern Furniture | 36 |
| 4 | Eastern Furniture | 37 |
| 4 | Eastern Furniture | 38 |
| 4 | Eastern Furniture | 39 |
| 4 | Eastern Furniture | 40 |
| 12 | Flanigan Furniture | 41 |
| 4 | Eastern Furniture | 42 |
| 12 | Flanigan Furniture | 43 |
| 6 | Furniture Gallery | 44 |
| 12 | Flanigan Furniture | 45 |
| 1 | Contemporary Casuals | 46 |
| 12 | Flanigan Furniture | 47 |
| 1 | Contemporary Casuals | 48 |
| 4 | Eastern Furniture | 49 |
| 8 | Dunkins Furniture | 50 |
| 16 | ABC Furniture Co. | 51 |
| 16 | ABC Furniture Co. | 52 |
| 16 | ABC Furniture Co. | 53 |
| 16 | ABC Furniture Co. | 54 |
| 16 | ABC Furniture Co. | 55 |
| 9 | A Carpet | 56 |
| 9 | A Carpet | 57 |
| 14 | Wild Bills | 58 |
| 13 | Ikards | 59 |
| 4 | Eastern Furniture | 63 |
| 4 | Eastern Furniture | 64 |
| 4 | Eastern Furniture | 65 |
| 9 | A Carpet | 66 |
| 4 | Eastern Furniture | 69 |
| 4 | Eastern Furniture | 71 |
| 12 | Flanigan Furniture | 73 |
| 1 | Contemporary Casuals | 75 |
| 4 | Eastern Furniture | 76 |
| 7 | New Furniture |  |
| 2 | Value Furnitures |  |
| 5 | Impressions |  |

61 rows returned in 0.02 seconds

**Query15:**

select productid, productdescription

from product\_t p1

where productstandardprice <

(select avg(productstandardprice) from product\_t p2

 where p1.productlineid = p2.productlineid

 group by productlineid)

order by productid;

**Result:**

|  |  |
| --- | --- |
| PRODUCTID | PRODUCTDESCRIPTION |
| 1 | Cherry End Table |
| 2 | Birch Coffee Tables |
| 5 | Writer's Desk |
| 7 | 48 Bookcase |
| 8 | 48 Bookcase |
| 10 | 96 Bookcase |
| 11 | 4-Drawer Dresser |
| 13 | Nightstand |
| 14 | Writer's Desk |
| 18 | 6' Grandfather Clock |
| 21 | Pine End Table |
| 25 |  |

12 rows returned in 0.03 seconds

**Query16**:

select w.workcenterid

from worksin\_t w, employeeskills\_t es

where w.employeeid = es.employeeid AND es.skillid = 'QC1'

group by w.workcenterid

having count(es.employeeid) >= 1;

**Result:**

|  |
| --- |
| WORKCENTERID |
| SM1 |

1 rows returned in 0.01 seconds

**Query17:**

select employeeid, employeename

from employee\_t

MINUS

select e.employeeid, e.employeename

from employee\_t e, employeeskills\_t es, skill\_t s

where e.employeeid = es.employeeid and es.skillid = s.skillid

and s.skilldescription = 'Router'

order by employeename;

**Result:**

|  |  |
| --- | --- |
| EMPLOYEEID | EMPLOYEENAME |
| Laura | Laura Ellenburg |
| 332445667 | Lawrence Haley |
| 555955585 | Mary Smith |

3 rows returned in 0.05 seconds

**Query18:**

select o.orderid, o.customerid, o.orderdate, ol.productid,

p.productdescription

from order\_t o, orderline\_t ol, product\_t p

where o.orderid = ol.orderid and ol.productid = p.productid

and o.customerid = 4;

**Result:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ORDERID | CUSTOMERID | ORDERDATE | PRODUCTID | PRODUCTDESCRIPTION |
| 1 | 4 | 9/8/2014 | 2 | Birch Coffee Tables |
| 1 | 4 | 9/8/2014 | 6 | 8-Drawer Dresser |
| 1 | 4 | 9/8/2014 | 10 | 96 Bookcase |
| 5 | 4 | 7/28/2014 | 1 | Cherry End Table |
| 5 | 4 | 7/28/2014 | 6 | 8-Drawer Dresser |
| 25 | 4 | 3/10/2015 | 2 | Birch Coffee Tables |
| 26 | 4 | 3/10/2015 | 1 | Cherry End Table |
| 28 | 4 | 3/10/2015 | 1 | Cherry End Table |
| 39 | 4 | 3/11/2015 | 2 | Birch Coffee Tables |
| 49 | 4 | 3/11/2015 | 1 | Cherry End Table |
| 63 | 4 | 3/11/2015 | 3 | Oak Computer Desk |
| 65 | 4 | 3/11/2015 | 4 | Entertainment Center |
| 69 | 4 | 3/11/2015 | 7 | 48 Bookcase |
| 71 | 4 | 9/8/2015 | 3 | Oak Computer Desk |

14 rows returned in 0.03 seconds

**Query19:**

SELECT p.productid, p.productdescription, p.productstandardprice,

SUM(u.quantityrequired \* r.materialstandardprice) as TotCost

from product\_t p, uses\_t u, rawmaterial\_t r

where p.productid = u.productid and u.materialid = r.materialid

group by p.productid, p.productdescription, p.productstandardprice;

**Result:**

|  |  |  |  |
| --- | --- | --- | --- |
| PRODUCTID | PRODUCTDESCRIPTION | PRODUCTSTANDARDPRICE | TOTCOST |
| 4 | Entertainment Center | 1650 | 931.6 |
| 3 | Oak Computer Desk | 750 | 353.2 |
| 1 | Cherry End Table | 175 | 99.7 |
| 6 | 8-Drawer Dresser | 750 | 231.25 |
| 2 | Birch Coffee Tables | 200 | 135.4 |
| 18 | 6' Grandfather Clock | 890 | 108 |

6 rows returned in 0.09 seconds

**Query20:**

Select s.salespersonname, p.productfinish, Sum(ol.orderedquantity) AS TotSales

from salesperson\_t s, order\_t o, orderline\_t ol, product\_t p

where s.salespersonid = o.salespersonid

and o.orderid = ol.orderid

and ol.productid = p.productid

group by s.salespersonname, p.productfinish;

**Result:**

|  |  |  |
| --- | --- | --- |
| SALESPERSONNAME | PRODUCTFINISH | TOTSALES |
| Robert Lewis | Cherry | 1 |
| William Strong | Birch | 32 |
| Robert Lewis | Birch | 2 |
| Jacob Winslow | Oak | 5 |
| Pepe Lepue | Cherry | 0 |
| Pepe Lepue | Oak | 5 |
| Robert Lewis | Walnut | 4 |
| Julie Dawson | Oak | 10 |
| Julie Dawson | Birch | 10 |
| Robert Lewis | Leather | 5 |
| Mary James | Birch | 2 |
| Jacob Winslow | Cherry | 1 |
| Fred Flinstone | Cherry | 2 |
| William Strong | Cherry | 9 |
| William Strong | Oak | 23 |
| Jacob Winslow | Birch | 3 |
| Mary James | Oak | 3 |

17 rows returned in 0.02 seconds

**Query21:**

select workcenter\_t.workcenterid, count(productid) AS TotalProducts

from workcenter\_t left outer join producedin\_t on workcenter\_t.workcenterid = producedin\_t.workcenterid

group by workcenter\_t.workcenterid;

**Result:**

|  |  |
| --- | --- |
| WORKCENTERID | TOTALPRODUCTS |
| SM1 | 0 |
| Tampa1 | 14 |
| WR1 | 0 |

3 rows returned in 0.00 seconds

**Query22:**

select territoryid, territoryname from territory\_t

where territoryid >= (select avg(territoryid) from doesbusinessin\_t where customerid in (

    select distinct customerid from customerShipAddress\_t

));

**Result:**

|  |  |
| --- | --- |
| TERRITORYID | TERRITORYNAME |
| 3 | NorthEast |
| 4 | NorthWest |
| 5 | Central |
| 6 | Alaska |
| 12 | Hawaii |
| 13 | Colorado |
| 15 | Arizona |

7 rows returned in 0.04 seconds

**Query23:**

select o.Customerid, SUM(ol.orderedquantity) from order\_t o, orderline\_t ol,

product\_t p

where o.orderid = ol.orderid and

ol.productid = p.productid and

p.productdescription LIKE '%Computer Desk'

group by o.Customerid

order by o.Customerid;

**Result:**

|  |  |
| --- | --- |
| CUSTOMERID | SUM(OL.ORDEREDQUANTITY) |
| 3 | 12 |
| 4 | 5 |
| 6 | 1 |
| 14 | 1 |
| 16 | 5 |

5 rows returned in 0.03 seconds

**Query24:**

select p.productdescription, SUM(ol.orderedquantity) from product\_t p, orderline\_t ol

where p.productid = ol.productid

group by p.productdescription

order by p.productdescription;

**Result:**

|  |  |
| --- | --- |
| PRODUCTDESCRIPTION | SUM(OL.ORDEREDQUANTITY) |
| 48 Bookcase | 6 |
| 8-Drawer Dresser | 7 |
| 96 Bookcase | 9 |
| Amoire | 1 |
| Birch Coffee Tables | 30 |
| Cherry End Table | 12 |
| Entertainment Center | 6 |
| High Back Leather Chair | 5 |
| Nightstand | 2 |
| Oak Computer Desk | 24 |
| Writer's Desk | 25 |

11 rows returned in 0.03 seconds

**Query25:**

SELECT p.productid, productdescription, c.customerid, customername,

sum(ol.orderedquantity) AS TotalOrdered

from customer\_t c, product\_t p, orderline\_t ol, order\_t o

where c.customerid = o.customerid and

o.orderid = ol.orderid and

ol.productid = p.productid

group by p.productid, productdescription, c.customerid, customername

having sum(ol.orderedquantity) >= ALL(SELECT SUM(ol2.orderedquantity)

FROM orderline\_t ol2, order\_t o2

    where ol2.productid = p.productid and ol2.orderid = o2.orderid and

o2.customerid <> c.customerid

    group by o2.customerid) order by p.productid;

**Result:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| PRODUCTID | PRODUCTDESCRIPTION | CUSTOMERID | CUSTOMERNAME | TOTALORDERED |
| 1 | Cherry End Table | 4 | Eastern Furniture | 9 |
| 2 | Birch Coffee Tables | 4 | Eastern Furniture | 26 |
| 3 | Oak Computer Desk | 3 | Home Furnishings | 12 |
| 4 | Entertainment Center | 16 | ABC Furniture Co. | 4 |
| 5 | Writer's Desk | 15 | Janet's Collection | 10 |
| 6 | 8-Drawer Dresser | 4 | Eastern Furniture | 4 |
| 7 | 48 Bookcase | 4 | Eastern Furniture | 4 |
| 8 | 48 Bookcase | 3 | Home Furnishings | 2 |
| 10 | 96 Bookcase | 4 | Eastern Furniture | 9 |
| 13 | Nightstand | 13 | Ikards | 2 |
| 14 | Writer's Desk | 15 | Janet's Collection | 10 |
| 17 | High Back Leather Chair | 1 | Contemporary Casuals | 5 |
| 20 | Amoire | 8 | Dunkins Furniture | 1 |

13 rows returned in 0.03 seconds

---------------------------------------------XXXXXXXXXXXXXXXXXXXXXX--------------------------------------------------