

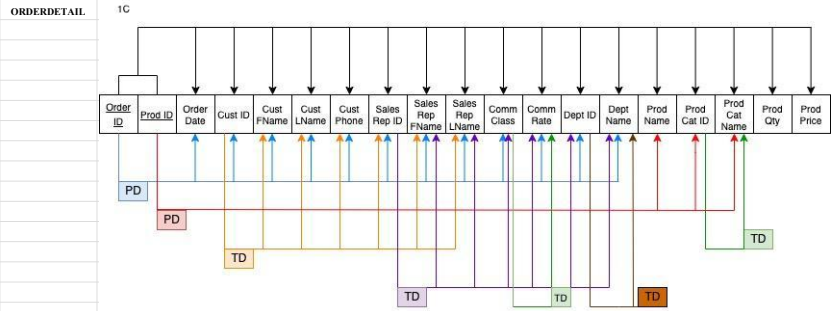
1A.																		
ORDERDETAIL																		
Order ID	Order Date	Cust ID	Cust FName	Cust LName	Cust Phone	Sales Rep ID	Sales Rep FName	Sales Rep LName	Comm Class	Comm Rate	Dept ID	Dept Name	Prod ID	Prod Name	Prod Cat ID	Prod Cat Name	Prod Qty	Prod Price
100	1/24/22	S100	John	Smith	214-555-1212	10	Alice	Jones	A	0.1	10	Store Sales	121	BD Hammer	1	Hand Tools	2	\$8.00
100	1/24/22	S100	John	Smith	214-555-1212	10	Alice	Jones	A	0.1	10	Store Sales	228	Makita Power Drill	2	Power Tools	1	\$65.00
100	1/24/22	S100	John	Smith	214-555-1212	10	Alice	Jones	A	0.1	10	Store Sales	480	1# BD Nails	4	Fasteners	2	\$3.00
100	1/24/22	S100	John	Smith	214-555-1212	10	Alice	Jones	A	0.1	10	Store Sales	407	1# BD Screws	4	Fasteners	1	\$4.25
101	1/25/22	A120	Jane	Adams	817-555-3434	12	Greg	Taylor	B	0.08	14	Corp Sales	610	3M Duct Tape	6	Misc	200	\$1.75
101	1/25/22	A120	Jane	Adams	817-555-3434	12	Greg	Taylor	B	0.08	14	Corp Sales	618	3M Masking Tape	6	Misc	100	\$1.25
102	1/25/22	J090	Tim	Jones		14	Sara	Day	Z	0	10	Store Sales	380	Acme Yard Stick	3	Measuring Tools	2	\$1.25
102	1/25/22	J090	Tim	Jones		14	Sara	Day	Z	0	10	Store Sales	121	BD Hammer	1	Hand Tools	1	\$7.00
102	1/25/22	J090	Tim	Jones		14	Sara	Day	Z	0	10	Store Sales	535	Schlage Door Knob	5	Hardware	4	\$7.50
103	1/26/22	B200	Ann	Brown	972-555-7979	8	Kay	Price	C	0.05	14	Corp Sales	121	BD Hammer	1	Hand Tools	50	\$7.00
103	1/26/22	B200	Ann	Brown	972-555-7979	8	Kay	Price	C	0.05	14	Corp Sales	123	Acme Pry Bar	1	Hand Tools	20	\$6.25
104	1/26/22	S100	John	Smith	214-555-1212	10	Alice	Jones	A	0.1	10	Store Sales	229	BD Power Drill	2	Power Tools	1	\$50.00
104	1/26/22	S100	John	Smith	214-555-1212	10	Alice	Jones	A	0.1	10	Store Sales	610	3M Duct Tape	6	Misc	200	\$1.75
104	1/26/22	S100	John	Smith	214-555-1212	10	Alice	Jones	A	0.1	10	Store Sales	380	Acme Yard Stick	3	Measuring Tools	2	\$1.25
104	1/26/22	S100	John	Smith	214-555-1212	10	Alice	Jones	A	0.1	10	Store Sales	535	Schlage Door Knob	5	Hardware	4	\$7.50
105	1/26/22	B200	Ann	Brown	972-555-7979	8	Kay	Price	C	0.05	14	Corp Sales	610	3M Duct Tape	6	Misc	200	\$1.75
105	1/26/22	B200	Ann	Brown	972-555-7979	8	Kay	Price	C	0.05	14	Corp Sales	123	Acme Pry Bar	1	Hand Tools	40	\$5.00
106	1/27/22	G070	Kate	Green	817-555-1034	20	Bob	Jackson	B	0.08	10	Store Sales	124	Acme Hammer	1	Hand Tools	1	\$6.50
107	1/27/22	J090	Tim	Jones		14	Sara	Day	Z	0	10	Store Sales	229	BD Power Drill	2	Power Tools	1	\$59.00
108	1/27/22	S120	Nicole	Sims		22	Micah	Moore	Z	0	16	Web Sales	235	Makita Power Drill	2	Power Tools	1	\$65.00

1B. Table Structure Format

ORDERDETAIL (OrderID, OrderDate, CustID, CustFName, CustLName, CustPhone, SalesRepID, SalesRepFName, SalesRepLName, CommClass, CommRate, DeptID, DeptName, ProdName, ProdCatID, ProdCatName, ProdQty, ProdPrice)

1C.

Dependency Diagram



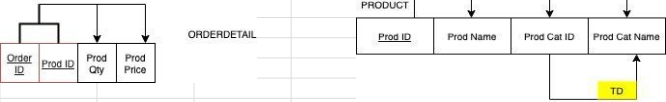
2A. Key components

OrderID
ProdID
OrderID, ProdID

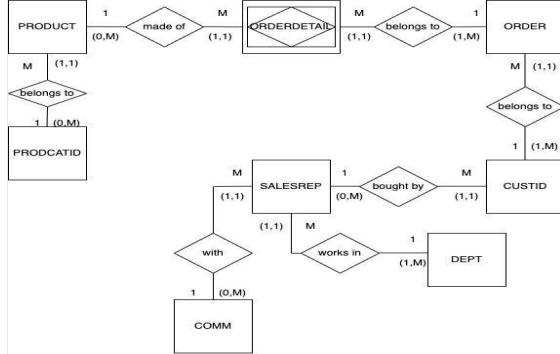
2B. Table Structure Format

ORDER(OrderID, OrderDate, CustID, CustFNAME, CustLName, CustPhone, SalesRep ID, SalesRepFName, SalesRep LName, CommClass, CommRate, DeptID, DeptName)
PRODUCT(ProdID, ProdName, ProdCatID, ProdCatName)
ORDERDETAIL(OrderID, ProdID, ProdQty, ProdPrice)

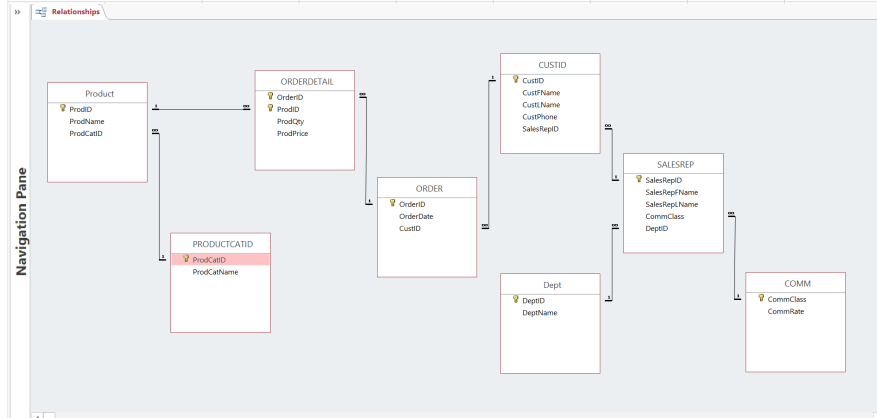
2C. Dependency Diagrams



4A. ERD



4B. Relation Schema



5. Business Rules

- Each CUSTID is ALWAYS related to ONE SALESREP.
- Each SALESREP is SOMETIMES related to ONE or MORE CUSTID.
- Each CUSTID is ALWAYS related to ONE or MORE ORDER.
- Each ORDER is ALWAYS related to ONE CUSTID.
- Each ORDER is ALWAYS related to ONE or MORE ORDERDETAIL.
- Each ORDERDETAIL is ALWAYS related to ONE ORDER.
- Each ORDERDETAIL is ALWAYS related to ONE PRODUCT.
- Each PRODUCT is SOMETIMES related to ONE or MORE ORDERDETAIL.
- Each PRODUCT is ALWAYS related to ONE PRODCATID.
- Each PRODCATID is SOMETIMES related to ONE or MORE PRODUCT.
- Each COMM is SOMETIMES related to ONE or MORE SALESREP.
- Each SALESREP is ALWAYS related to ONE COMM.
- Each SALESREP is ALWAYS related to ONE DEPT.
- Each DEPT is ALWAYS related to ONE or MORE SALESREP.

```
spool'C:\Users\darsh\OneDrive\Desktop\project3_at.txt'
```

```
set echo on
```

```
--Anup Tiwari
```

```
--INSY-3304-001
```

```
--Project 3
```

```
--Part I
```

```
SET LINESIZE 150
```

```
--Formatting column heading (varchar and char columns only)
```

```
COLUMN DeptName FORMAT a12
```

```
COLUMN CommClass FORMAT a12
```

```
COLUMN SalesRepFName FORMAT a17
```

```
COLUMN SalesRepLName FORMAT a17
```

```
COLUMN CustID FORMAT a12
```

```
COLUMN "Cust ID" FORMAT a7
```

```
COLUMN CustFName FORMAT a14
```

```
COLUMN CustLName FORMAT a14
```

```
COLUMN ProdName FORMAT a12
```

```
COLUMN OrderDate FORMAT a10
```

```
COLUMN "Order Date" FORMAT a10
```

```
COLUMN "SalesRepFirstName" FORMAT a17
```

```
COLUMN "SalesRepLastName" FORMAT a17
```

-- #4 Add new Customer

INSERT into CUSTOMER_AT

VALUES ('T104','Wes','Thomas','4695551215',22);

-- #5 Add new Product

INSERT into PRODUCT_AT

VALUES (246,'Milwaukee Power Drill',2,179);

-- #6 Add new Order

INSERT INTO ORDER_AT

VALUES ((SELECT MAX (OrderID) + 1) FROM ORDER_AT), '28-JAN-2022', 'T104')

INSERT INTO ORDERDETAIL_AT

VALUES ((SELECT MAX (OrderID) FROM ORDER_AT), 618, 1, (SELECT ProdPrice FROM PRODUCT_AT
WHERE ProdID = 618));

INSERT INTO ORDERDETAIL_AT

VALUES ((SELECT MAX (OrderID) FROM ORDER_AT), 407, 2, (SELECT ProdPrice FROM PRODUCT_AT
WHERE ProdID = 407));

INSERT INTO ORDERDETAIL_AT

VALUES ((SELECT MAX (OrderID) FROM ORDER_AT), 124, 1, (SELECT ProdPrice FROM PRODUCT_AT
WHERE ProdID = 124));

-- #7

INSERT INTO ORDER_AT

VALUES ((SELECT MAX (OrderID) + 1) FROM ORDER_AT), '29-JAN-2022', 'S100')

INSERT INTO ORDERDETAIL_AT

VALUES ((SELECT MAX (OrderID) FROM ORDER_AT), 535, 3, (SELECT ProdPrice FROM PRODUCT_AT
WHERE ProdID = 535));

INSERT INTO ORDERDETAIL_AT

VALUES ((SELECT MAX (OrderID) FROM ORDER_AT), 246, 1, (SELECT ProdPrice FROM PRODUCT_AT
WHERE ProdID = 246));

INSERT INTO ORDERDETAIL_AT

VALUES ((SELECT MAX (OrderID) FROM ORDER_AT), 610, 2, (SELECT ProdPrice FROM PRODUCT_AT
WHERE ProdID = 610));

-- #8 Change phone number for Customer B200

UPDATE CUSTOMER_AT

SET CustPhone = '8175558918'

WHERE CustID = 'B200';

COMMIT;

--Part II

--1.

```
SELECT (SalesRepFName || ' ' || SalesRepLName) AS "SalesRep Name", SalesRepID AS "Sales Rep ID",  
S.CommClass AS "Commission Class", CommRate AS "Commission Rate"
```

```
FROM SALESREP_AT S, COMMISSION_AT C
```

```
WHERE S.CommClass = C.CommClass
```

```
ORDER BY SalesRepLName;
```

--2.

```
SELECT OrderID AS "ORDER ID", ProdID AS "Product ID", ProdQty AS "Qty",  
TO_CHAR(ProdPrice,'$999.99') AS "Price"
```

```
FROM ORDERDETAIL_AT
```

```
ORDER BY OrderID,ProdID;
```

--3.

```
SELECT CustID, CustFName AS "CustFirstName", CustLName AS "CustLastName", (' ' ||  
SUBSTR(CustPhone,1,3) || ' ' || SUBSTR(CustPhone,4,3) || '-' || SUBSTR(CustPhone,7,4)), S.SalesRepID,  
SalesRepFName AS "SalesRepFirstName", SalesRepLName AS "SalesRepLastName"
```

```
FROM CUSTOMER_AT CU , SALESREP_AT S
```

```
WHERE CU.SalesRepID = S.SalesRepID
```

```
ORDER BY CustID ASC;
```

--4.

```
SELECT DE.DeptID AS "Dept_ID", DE.DeptName AS "Dept_Name", SR.SalesRepID AS "Sales_Rep_ID",
```

```
SR.SalesRepFName AS "First_Name", SR.SalesRepLName AS "Last_Name",
```

```
SR.CommClass AS "Commission_Class", C.CommRate AS "Commission_Rate"
```

```
FROM DEPARTMENT_snb DE, SALESREP_snb SR, COMMISSION_snb C
```

```
WHERE C.CommClass = SR.CommClass AND  
DE.DeptID = SR.DeptID AND  
(DE.DeptID, CommRate) IN  
(SELECT DeptID, MAX(CommRate)  
FROM SALESREP_snb  
GROUP BY DeptID);
```

--5.

```
SELECT OD.ProdID AS "Product_ID", PR.ProdName AS "Product_Name", PR.ProdCatID AS "Category",  
TO_CHAR(PR.ProdPrice, '$999.99' ) AS "Price"  
FROM PRODUCT_AT PR, ORDER_AT O, ORDERDETAIL_AT OD  
WHERE PR.ProdID = OD.ProdID AND  
O.OrderID = OD.OrderID AND  
O.OrderID = 100 AND  
PR.ProdPrice = (SELECT MAX(ProdPrice)  
FROM ORDERDETAIL_AT OD  
WHERE OrderID = 100);
```

--6.

```
SELECT DeptName AS "Dept_Name", COUNT(SalesRepID) AS "Sales_Rep_Count"  
FROM DEPARTMENT_AT, SALESREP_AT  
GROUP BY DeptName  
ORDER BY "Sales_Rep_Count" ASC;
```

--7.


```

SELECT SalesRepID AS "Sales_Rep_ID", SalesRepFName AS "First_Name", SalesRepLName AS
"Last_Name", (CommRate*100) || '%' AS "Commission_Rate"

FROM SALESREP_AT S, COMMISSION_AT C

WHERE S.CommClass = C.CommClass AND

(SalesRepID) IN

(SELECT SalesRepID FROM SALESREP_AT S, COMMISSION_AT C WHERE S.CommClass = C.CommClass
AND CommRate <= .05 AND CommRate <> 0 GROUP BY SalesRepID)

ORDER BY CommRate DESC;

```

--8.

```

SELECT O.OrderID, TO_CHAR(O.OrderDate, 'mm/dd/yy') AS "OrderDate", C.CustFName, C.CustLName,
S.SalesRepID, S.SalesRepFName, S.SalesRepLName

FROM ORDER_AT O, CUSTOMER_AT C, SALESREP_AT S

WHERE O.CustID = C.CustID AND

C.SalesRepID = S.SalesRepID

ORDER BY OrderID;

```

--9.

```

SELECT O.OrderID, P.ProdID, P.ProdName, P.ProdCatID AS "CatID",

O.ProdPrice AS "Price", O.ProdQty AS "Qty", (O.ProdPrice*O.ProdQty) AS "ExtPrice"

FROM ORDERDETAIL_AT O, PRODUCT_AT P

WHERE O.ProdID = P.ProdID AND

OrderID = 104

ORDER BY "ExtPrice";

```

--10.

```
SELECT D.DeptID AS "DeptID", DeptName AS "DeptName", COUNT(SalesRepID) AS "SalesRepCount",  
(AVG(CommRate)*100) || '%' AS "AvgCommRate"  
FROM DEPARTMENT_AT D, COMMISSION_AT C, SALESREP_AT S  
WHERE D.DeptID = S.DeptID AND  
C.CommClass = S.CommClass  
GROUP BY D.DeptID, DeptName  
ORDER BY "AvgCommRate" ASC;
```

--11.

```
SELECT SalesRepID, SalesRepFName, SalesRepLName, DeptName, C.CommClass, CommRate  
FROM SALESREP_AT S, COMMISSION_AT C, DEPARTMENT_AT  
WHERE C.CommClass = S.CommClass  
AND CommRate > 0  
ORDER BY S.SalesRepID;
```

--12.

```
SELECT SalesRepID, (SalesRepFName || ' ' || SalesRepLName) AS "SalesRep_Name", D.DeptID, DeptName  
FROM SALESREP_AT S, DEPARTMENT_AT D  
WHERE S.DeptID = D.DeptID AND CommClass = 'A'  
ORDER BY D.DeptID, SalesRepID;
```

--13.

```
SELECT OrderID AS "Order_ID", TO_CHAR(SUM(ProdPrice * ProdQty), '$999.99') AS "Order_Total"  
FROM ORDERDETAIL_AT O  
WHERE OrderID = 104  
GROUP BY OrderID;
```

--14.

```
SELECT TO_CHAR((SUM(ProdPrice)/COUNT(ProdID)), '$999.99') AS "Avg_Price"
FROM ORDERDETAIL_AT;
```

--15.

```
SELECT P.ProdID AS "ProductID", P.ProdName AS "Name", TO_CHAR(P.ProdPrice, '$999.99') AS "Price"
FROM PRODUCT_At P, ORDERDETAIL_AT O
WHERE P.ProdID = O.ProdID
GROUP BY P.ProdID, P.ProdName, P.ProdPrice
HAVING COUNT(O.OrderID) = (
SELECT MAX(ProdCount) FROM (
SELECT COUNT(OrderID) AS ProdCount, ProdID
FROM ORDERDETAIL_AT
GROUP BY ProdID));
```

--16.

```
SELECT ProdCatID AS "Cat_ID", ProdID AS "Prod_ID", ProdName AS "Prod_Name", TO_CHAR(ProdPrice,
'$999.99') AS "Price"
FROM PRODUCT_AT
WHERE (ProdCatID, ProdPrice) IN
(SELECT ProdCatID, MIN(ProdPrice)
FROM PRODUCT_AT
GROUP BY ProdCatID);
```

--17.

```
SELECT ProdID, ProdName, ProdCatName, TO_CHAR(ProdPrice, '$999.99') AS "ProdPrice"
```

```
FROM PRODUCT_AT P, PRODCAT_AT PC
WHERE P.ProdCatID = PC.ProdCatID AND
ProdPrice > (SELECT AVG(ProdPrice) FROM PRODUCT_AT);
```

--18.

```
SELECT OrderID AS "Order ID", TO_CHAR(OrderDate, 'mm-dd-yyyy') AS "Order Date", C.CustID AS "Cust
ID", (CustFName || ' ' || CustLName) AS "Name", CustPhone AS "Phone"
FROM CUSTOMER_AT C, ORDER_AT O
WHERE C.CustID = O.CustID AND
OrderDate <= DATE '2022-01-26'
ORDER BY OrderDate, C.CustID;
```

--19.

```
SELECT CustID, CustFName AS "FirstName", CustLName AS "LastName"
FROM CUSTOMER_AT
WHERE CustFName LIKE '%A'
ORDER BY CustLName;
```

--20.

```
SELECT CustID AS "Customer ID", (CustFName || ' ' || CustLName) AS "Name",
SUBSTR(CustPhone,1,3) || '-' || SUBSTR(CustPhone,4,3) || '-' || SUBSTR(CustPhone,7,4) as "Phone"
FROM CUSTOMER_AT
WHERE SalesRepID = 12;
```

--Turn off Logging

spool off

--Setting echo off

set echo off

```
spool'C:\Users\darsh\OneDrive\Desktop\project3_at.txt'
```

```
set echo on
```

```
--Anup Tiwari
```

```
--INSY-3304-001
```

```
--Project 3
```

```
--Part I
```

```
SET LINESIZE 150
```

```
--Formatting column heading (varchar and char columns only)
```

```
COLUMN DeptName FORMAT a12
```

```
COLUMN CommClass FORMAT a12
```

```
COLUMN SalesRepFName FORMAT a17
```

```
COLUMN SalesRepLName FORMAT a17
```

```
COLUMN CustID FORMAT a12
```

```
COLUMN "Cust ID" FORMAT a7
```

```
COLUMN CustFName FORMAT a14
```

```
COLUMN CustLName FORMAT a14
```

```
COLUMN ProdName FORMAT a12
```

```
COLUMN OrderDate FORMAT a10
```

```
COLUMN "Order Date" FORMAT a10
```

```
COLUMN "SalesRepFirstName" FORMAT a17
```

```
COLUMN "SalesRepLastName" FORMAT a17
```

-- #4 Add new Customer

INSERT into CUSTOMER_AT

VALUES ('T104','Wes','Thomas','4695551215',22);

-- #5 Add new Product

INSERT into PRODUCT_AT

VALUES (246,'Milwaukee Power Drill',2,179);

-- #6 Add new Order

INSERT INTO ORDER_AT

VALUES ((SELECT MAX (OrderID) + 1) FROM ORDER_AT), '28-JAN-2022', 'T104')

INSERT INTO ORDERDETAIL_AT

VALUES ((SELECT MAX (OrderID) FROM ORDER_AT), 618, 1, (SELECT ProdPrice FROM PRODUCT_AT
WHERE ProdID = 618));

INSERT INTO ORDERDETAIL_AT

VALUES ((SELECT MAX (OrderID) FROM ORDER_AT), 407, 2, (SELECT ProdPrice FROM PRODUCT_AT
WHERE ProdID = 407));

INSERT INTO ORDERDETAIL_AT

VALUES ((SELECT MAX (OrderID) FROM ORDER_AT), 124, 1, (SELECT ProdPrice FROM PRODUCT_AT
WHERE ProdID = 124));

-- #7

INSERT INTO ORDER_AT

VALUES ((SELECT MAX (OrderID) + 1) FROM ORDER_AT), '29-JAN-2022', 'S100')

INSERT INTO ORDERDETAIL_AT

VALUES ((SELECT MAX (OrderID) FROM ORDER_AT), 535, 3, (SELECT ProdPrice FROM PRODUCT_AT
WHERE ProdID = 535));

INSERT INTO ORDERDETAIL_AT

VALUES ((SELECT MAX (OrderID) FROM ORDER_AT), 246, 1, (SELECT ProdPrice FROM PRODUCT_AT
WHERE ProdID = 246));

INSERT INTO ORDERDETAIL_AT

VALUES ((SELECT MAX (OrderID) FROM ORDER_AT), 610, 2, (SELECT ProdPrice FROM PRODUCT_AT
WHERE ProdID = 610));

-- #8 Change phone number for Customer B200

UPDATE CUSTOMER_AT

SET CustPhone = '8175558918'

WHERE CustID = 'B200';

COMMIT;

--Part II

--1.

```
SELECT (SalesRepFName || ' ' || SalesRepLName) AS "SalesRep Name", SalesRepID AS "Sales Rep ID",  
S.CommClass AS "Commission Class", CommRate AS "Commission Rate"  
  
FROM SALESREP_AT S, COMMISSION_AT C  
  
WHERE S.CommClass = C.CommClass  
  
ORDER BY SalesRepLName;
```

--2.

```
SELECT OrderID AS "ORDER ID", ProdID AS "Product ID", ProdQty AS "Qty",  
TO_CHAR(ProdPrice,'$999.99') AS "Price"  
  
FROM ORDERDETAIL_AT  
  
ORDER BY OrderID,ProdID;
```

--3.

```
SELECT CustID, CustFName AS "CustFirstName", CustLName AS "CustLastName", (' ' ||  
SUBSTR(CustPhone,1,3) || ' ' || SUBSTR(CustPhone,4,3) || '-' || SUBSTR(CustPhone,7,4)), S.SalesRepID,  
SalesRepFName AS "SalesRepFirstName", SalesRepLName AS "SalesRepLastName"  
  
FROM CUSTOMER_AT CU , SALESREP_AT S  
  
WHERE CU.SalesRepID = S.SalesRepID  
  
ORDER BY CustID ASC;
```

--4.

```
SELECT DE.DeptID AS "Dept_ID", DE.DeptName AS "Dept_Name", SR.SalesRepID AS "Sales_Rep_ID",  
SR.SalesRepFName AS "First_Name", SR.SalesRepLName AS "Last_Name",  
SR.CommClass AS "Commission_Class", C.CommRate AS "Commission_Rate"  
  
FROM DEPARTMENT_snb DE, SALESREP_snb SR, COMMISSION_snb C
```

```
WHERE C.CommClass = SR.CommClass AND  
DE.DeptID = SR.DeptID AND  
(DE.DeptID, CommRate) IN  
(SELECT DeptID, MAX(CommRate)  
FROM SALESREP_snb  
GROUP BY DeptID);
```

--5.

```
SELECT OD.ProdID AS "Product_ID", PR.ProdName AS "Product_Name", PR.ProdCatID AS "Category",  
TO_CHAR(PR.ProdPrice, '$999.99' ) AS "Price"  
FROM PRODUCT_AT PR, ORDER_AT O, ORDERDETAIL_AT OD  
WHERE PR.ProdID = OD.ProdID AND  
O.OrderID = OD.OrderID AND  
O.OrderID = 100 AND  
PR.ProdPrice = (SELECT MAX(ProdPrice)  
FROM ORDERDETAIL_AT OD  
WHERE OrderID = 100);
```

--6.

```
SELECT DeptName AS "Dept_Name", COUNT(SalesRepID) AS "Sales_Rep_Count"  
FROM DEPARTMENT_AT, SALESREP_AT  
GROUP BY DeptName  
ORDER BY "Sales_Rep_Count" ASC;
```

--7.

```

SELECT SalesRepID AS "Sales_Rep_ID", SalesRepFName AS "First_Name", SalesRepLName AS
"Last_Name", (CommRate*100) || '%' AS "Commission_Rate"

FROM SALESREP_AT S, COMMISSION_AT C

WHERE S.CommClass = C.CommClass AND

(SalesRepID) IN

(SELECT SalesRepID FROM SALESREP_AT S, COMMISSION_AT C WHERE S.CommClass = C.CommClass
AND CommRate <= .05 AND CommRate <> 0 GROUP BY SalesRepID)

ORDER BY CommRate DESC;

```

--8.

```

SELECT O.OrderID, TO_CHAR(O.OrderDate, 'mm/dd/yy') AS "OrderDate", C.CustFName, C.CustLName,
S.SalesRepID, S.SalesRepFName, S.SalesRepLName

FROM ORDER_AT O, CUSTOMER_AT C, SALESREP_AT S

WHERE O.CustID = C.CustID AND

C.SalesRepID = S.SalesRepID

ORDER BY OrderID;

```

--9.

```

SELECT O.OrderID, P.ProdID, P.ProdName, P.ProdCatID AS "CatID",

O.ProdPrice AS "Price", O.ProdQty AS "Qty", (O.ProdPrice*O.ProdQty) AS "ExtPrice"

FROM ORDERDETAIL_AT O, PRODUCT_AT P

WHERE O.ProdID = P.ProdID AND

OrderID = 104

ORDER BY "ExtPrice";

```

--10.

```
SELECT D.DeptID AS "DeptID", DeptName AS "DeptName", COUNT(SalesRepID) AS "SalesRepCount",  
(AVG(CommRate)*100) || '%' AS "AvgCommRate"  
  
FROM DEPARTMENT_AT D, COMMISSION_AT C, SALESREP_AT S  
  
WHERE D.DeptID = S.DeptID AND  
  
C.CommClass = S.CommClass  
  
GROUP BY D.DeptID, DeptName  
  
ORDER BY "AvgCommRate" ASC;
```

--11.

```
SELECT SalesRepID, SalesRepFName, SalesRepLName, DeptName, C.CommClass, CommRate  
  
FROM SALESREP_AT S, COMMISSION_AT C, DEPARTMENT_AT  
  
WHERE C.CommClass = S.CommClass  
  
AND CommRate > 0  
  
ORDER BY S.SalesRepID;
```

--12.

```
SELECT SalesRepID, (SalesRepFName || ' ' || SalesRepLName) AS "SalesRep_Name", D.DeptID, DeptName  
  
FROM SALESREP_AT S, DEPARTMENT_AT D  
  
WHERE S.DeptID = D.DeptID AND CommClass = 'A'  
  
ORDER BY D.DeptID, SalesRepID;
```

--13.

```
SELECT OrderID AS "Order_ID", TO_CHAR(SUM(ProdPrice * ProdQty), '$999.99') AS "Order_Total"  
  
FROM ORDERDETAIL_AT O  
  
WHERE OrderID = 104  
  
GROUP BY OrderID;
```

--14.

```
SELECT TO_CHAR((SUM(ProdPrice)/COUNT(ProdID)), '$999.99') AS "Avg_Price"
FROM ORDERDETAIL_AT;
```

--15.

```
SELECT P.ProdID AS "ProductID", P.ProdName AS "Name", TO_CHAR(P.ProdPrice, '$999.99') AS "Price"
FROM PRODUCT_At P, ORDERDETAIL_AT O
WHERE P.ProdID = O.ProdID
GROUP BY P.ProdID, P.ProdName, P.ProdPrice
HAVING COUNT(O.OrderID) = (
SELECT MAX(ProdCount) FROM (
SELECT COUNT(OrderID) AS ProdCount, ProdID
FROM ORDERDETAIL_AT
GROUP BY ProdID));
```

--16.

```
SELECT ProdCatID AS "Cat_ID", ProdID AS "Prod_ID", ProdName AS "Prod_Name", TO_CHAR(ProdPrice,
'$999.99') AS "Price"
FROM PRODUCT_AT
WHERE (ProdCatID, ProdPrice) IN
(SELECT ProdCatID, MIN(ProdPrice)
FROM PRODUCT_AT
GROUP BY ProdCatID);
```

--17.

```
SELECT ProdID, ProdName, ProdCatName, TO_CHAR(ProdPrice, '$999.99') AS "ProdPrice"
```

```
FROM PRODUCT_AT P, PRODCAT_AT PC
WHERE P.ProdCatID = PC.ProdCatID AND
ProdPrice > (SELECT AVG(ProdPrice) FROM PRODUCT_AT);
```

--18.

```
SELECT OrderID AS "Order ID", TO_CHAR(OrderDate, 'mm-dd-yyyy') AS "Order Date", C.CustID AS "Cust
ID", (CustFName || ' ' || CustLName) AS "Name", CustPhone AS "Phone"
FROM CUSTOMER_AT C, ORDER_AT O
WHERE C.CustID = O.CustID AND
OrderDate <= DATE '2022-01-26'
ORDER BY OrderDate, C.CustID;
```

--19.

```
SELECT CustID, CustFName AS "FirstName", CustLName AS "LastName"
FROM CUSTOMER_AT
WHERE CustFName LIKE '%A'
ORDER BY CustLName;
```

--20.

```
SELECT CustID AS "Customer ID", (CustFName || ' ' || CustLName) AS "Name",
SUBSTR(CustPhone,1,3) || '-' || SUBSTR(CustPhone,4,3) || '-' || SUBSTR(CustPhone,7,4) as "Phone"
FROM CUSTOMER_AT
WHERE SalesRepID = 12;
```

--Turn off Logging

spool off

--Setting echo off

set echo off

```

SQL>
SQL> --Anup Tiwari
SQL> --INSY-3304-001
SQL> --Project 3
SQL>
SQL> --Part I
SQL>
SQL> SET LINESIZE 150
SQL>
SQL> --Formatting column heading (varchar and char columns only)
SQL>
SQL> COLUMN DeptName FORMAT a12
SQL> COLUMN CommClass FORMAT a12
SQL> COLUMN SalesRepFName FORMAT a17
SQL> COLUMN SalesRepLName FORMAT a17
SQL> COLUMN CustID FORMAT a12
SQL> COLUMN "Cust ID" FORMAT a7
SQL> COLUMN CustFName FORMAT a14
SQL> COLUMN CustLName FORMAT a14
SQL> COLUMN ProdName FORMAT a12
SQL> COLUMN OrderDate FORMAT a10
SQL> COLUMN "Order Date" FORMAT a10
SQL> COLUMN "SalesRepFirstName" FORMAT a17
SQL> COLUMN "SalesRepLastName" FORMAT a17
SQL>
SQL>
SQL> -- #4 Add new Customer
SQL> INSERT into CUSTOMER_AT
  2  VALUES ('T104','Wes','Thomas','4695551215',22);

1 row created.

SQL>
SQL> -- #5 Add new Product
SQL> INSERT into PRODUCT_AT
  2  VALUES (246,'Milwaukee Power Drill',2,179);

1 row created.

SQL>
SQL> -- #6 Add new Order
SQL> INSERT INTO ORDER_AT
  2  VALUES ((SELECT MAX (OrderID) + 1) FROM ORDER_AT), '28-JAN-2022', 'T104')
  3
SQL>
SQL>
SQL> INSERT INTO ORDERDETAIL_AT
  2  VALUES ((SELECT MAX (OrderID) FROM ORDER_AT), 618, 1, (SELECT ProdPrice FROM
PRODUCT_AT WHERE ProdID = 618));

```


1 row created.

SQL>

SQL>

SQL>

```
SQL> INSERT INTO ORDERDETAIL_AT
  2 VALUES ((SELECT MAX (OrderID) FROM ORDER_AT), 407, 2, (SELECT ProdPrice FROM
PRODUCT_AT WHERE ProdID = 407));
```

1 row created.

SQL>

SQL>

SQL>

```
SQL> INSERT INTO ORDERDETAIL_AT
  2 VALUES ((SELECT MAX (OrderID) FROM ORDER_AT), 124, 1, (SELECT ProdPrice FROM
PRODUCT_AT WHERE ProdID = 124));
```

1 row created.

SQL>

SQL> -- #7

```
SQL> INSERT INTO ORDER_AT
  2 VALUES ((SELECT MAX (OrderID) + 1) FROM ORDER_AT), '29-JAN-2022', 'S100')
  3
```

SQL>

SQL>

```
SQL> INSERT INTO ORDERDETAIL_AT
  2 VALUES ((SELECT MAX (OrderID) FROM ORDER_AT), 535, 3, (SELECT ProdPrice FROM
PRODUCT_AT WHERE ProdID = 535));
```

1 row created.

SQL>

SQL>

SQL>

```
SQL> INSERT INTO ORDERDETAIL_AT
  2 VALUES ((SELECT MAX (OrderID) FROM ORDER_AT), 246, 1, (SELECT ProdPrice FROM
PRODUCT_AT WHERE ProdID = 246));
```

1 row created.

SQL>

SQL>

SQL>

```
SQL> INSERT INTO ORDERDETAIL_AT
  2 VALUES ((SELECT MAX (OrderID) FROM ORDER_AT), 610, 2, (SELECT ProdPrice FROM
PRODUCT_AT WHERE ProdID = 610));
```

1 row created.

```

SQL>
SQL> -- #8 Change phone number for Customer B200
SQL> UPDATE CUSTOMER_AT
  2 SET CustPhone = '8175558918'
  3 WHERE CustID = 'B200';

```

1 row updated.

```

SQL>
SQL> COMMIT;

```

Commit complete.

```

SQL>
SQL> --Part II
SQL>
SQL> --1.
SQL> SELECT (SalesRepFName || ' ' || SalesRepLName) AS "SalesRep Name", SalesRepID
AS "Sales Rep ID", S.CommClass AS "Commission Class", CommRate AS "Commission Rate"
  2 FROM SALESREP_AT S, COMMISSION_AT C
  3 WHERE S.CommClass = C.CommClass
  4 ORDER BY SalesRepLName;

```

SalesRep Name	Sales Rep ID	C	Commission Rate
Sara Day	14	Z	0
Bob Jackson	20	B	.08
Alice Jones	10	A	.1
Micah Moore	22	Z	0
Kay Price	8	C	.05
Greg Taylor	12	B	.08

6 rows selected.

```

SQL>
SQL> --2.
SQL>
SQL> SELECT OrderID AS "ORDER ID", ProdID AS "Product ID", ProdQty AS "Qty",
TO_CHAR(ProdPrice,'$999.99') AS "Price"
  2 FROM ORDERDETAIL_AT
  3 ORDER BY OrderID,ProdID;

```

ORDER ID	Product ID	Qty	Price
100	121	2	\$8.00
100	228	1	\$65.00
100	407	1	\$4.25
100	480	2	\$3.00
101	610	200	\$1.75
101	618	100	\$1.25
102	121	1	\$7.00
102	380	2	\$1.25
102	535	4	\$7.50
103	121	50	\$7.00
103	123	20	\$6.25

ORDER ID	Product ID	Qty	Price
104	229	1	\$50.00
104	380	2	\$1.25
104	535	4	\$7.50
104	610	200	\$1.75
105	123	40	\$5.00
105	610	200	\$1.75
106	124	1	\$6.50
107	229	1	\$59.00
108	235	1	\$62.00

108	407	1	\$5.25
108	618	2	\$2.15

ORDER ID	Product ID	Qty	Price
109	121	1	\$8.25
109	124	1	\$6.50
109	246	1	\$179.00
109	407	2	\$4.25
109	480	1	\$3.75
109	535	3	\$7.50
109	610	2	\$1.75
109	618	1	\$1.25

30 rows selected.

SQL>

SQL> --3.

```
SQL> SELECT CustID, CustFName AS "CustFirstName", CustLName AS "CustLastName", ('('
|| SUBSTR(CustPhone,1,3) || ')') || SUBSTR(CustPhone,4,3) || '-' ||
SUBSTR(CustPhone,7,4)), S.SalesRepID, SalesRepFName AS "SalesRepFirstName",
SalesRepLName AS "SalesRepLastName"
  2 FROM CUSTOMER_AT CU , SALESREP_AT S
  3 WHERE CU.SalesRepID = S.SalesRepID
  4 ORDER BY CustID ASC;
```

CUSTID	CustFirstName	CustLastName	('(' SUBSTR(CUSTPHONE,1,3) ') ' SUBSTR(CU SALESREPID SalesRepFirstName SalesRepLastName
--------	---------------	--------------	---

A120	Jane	Adams	(817)555-3434
	12 Greg	Taylor	
B200	Ann	Brown	(817)555-8918
	8 Kay	Price	
G070	Kate	Green	(817)555-1034
	20 Bob	Jackson	

G119	Amanda	Green	(NUL)L -
	14 Sara	Day	
J090	Tim	Jones	(NUL)L -
	14 Sara	Day	
S100	John	Smith	(214)555-1212
	10 Alice	Jones	
S120	Nicole	Sims	(NUL)L -
	22 Micah	Moore	
T104	Wes	Thomas	(469)555-1215
	22 Micah	Moore	

8 rows selected.

SQL>

SQL>

SQL> --4.

SQL>

```
SQL> SELECT DE.DeptID AS "Dept_ID", DE.DeptName AS "Dept_Name", SR.SalesRepID AS
"Sales_Rep_ID",
  2  SR.SalesRepFName AS "First_Name", SR.SalesRepLName AS "Last_Name",
  3  SR.CommClass AS "Commission_Class", C.CommRate AS "Commission_Rate"
  4  FROM DEPARTMENT_snb DE, SALESREP_snb SR, COMMISSION_snb C
  5  WHERE C.CommClass = SR.CommClass AND
  6  DE.DeptID = SR.DeptID AND
  7  (DE.DeptID, CommRate) IN
  8  (SELECT DeptID, MAX(CommRate)
  9   FROM SALESREP_snb
 10  GROUP BY DeptID);
FROM DEPARTMENT_snb DE, SALESREP_snb SR, COMMISSION_snb C
*
```

ERROR at line 4:

ORA-00942: table or view does not exist

SQL>

SQL> --5.

SQL>

```
SQL> SELECT OD.ProdID AS "Product_ID", PR.ProdName AS "Product_Name", PR.ProdCatID
AS "Category",
  2  TO_CHAR(PR.ProdPrice, '$999.99' ) AS "Price"
  3  FROM PRODUCT_AT PR, ORDER_AT O, ORDERDETAIL_AT OD
  4  WHERE PR.ProdID = OD.ProdID AND
  5         O.OrderID = OD.OrderID AND
  6         O.OrderID = 100 AND
  7         PR.ProdPrice = (SELECT MAX(ProdPrice)
  8         FROM ORDERDETAIL_AT OD
  9         WHERE OrderID = 100);
```

Product_ID Product_Name

Category Price

```
-----
```

228 Makita Power Drill	2	\$65.00
------------------------	---	---------

```
SQL>
SQL>
SQL> --6.
SQL>
SQL> SELECT DeptName AS "Dept_Name", COUNT(SalesRepID) AS "Sales_Rep_Count"
  2 FROM DEPARTMENT_AT, SALESREP_AT
  3      GROUP BY DeptName
  4      ORDER BY "Sales_Rep_Count" ASC;
```

Dept_Name	Sales_Rep_Count
-----------	-----------------

```
-----
```

Corp Sales	6
Web Sales	6
Store Sales	6

```
SQL>
SQL> --7.
SQL>
SQL> SELECT SalesRepID AS "Sales_Rep_ID", SalesRepFName AS "First_Name",
SalesRepLName AS "Last_Name", (CommRate*100) || '%' AS "Commission_Rate"
  2 FROM SALESREP_AT S, COMMISSION_AT C
  3 WHERE S.CommClass = C.CommClass AND
  4 (SalesRepID) IN
  5 (SELECT SalesRepID FROM SALESREP_AT S, COMMISSION_AT C WHERE S.CommClass =
C.CommClass AND CommRate <= .05 AND CommRate <> 0 GROUP BY SalesRepID)
  6 ORDER BY CommRate DESC;
```

Sales_Rep_ID	First_Name	Last_Name	Commission_Rate
--------------	------------	-----------	-----------------

```
-----
-----
```

8 Kay	Price	5%
-------	-------	----

```
SQL>
SQL>
SQL> --8.
SQL> SELECT O.OrderID, TO_CHAR(O.OrderDate, 'mm/dd/yy') AS "OrderDate", C.CustFName,
C.CustLName, S.SalesRepID, S.SalesRepFName, S.SalesRepLName
```

```

2 FROM ORDER_AT O, CUSTOMER_AT C, SALESREP_AT S
3 WHERE O.CustID = C.CustID AND
4 C.SalesRepID = S.SalesRepID
5 ORDER BY OrderID;

```

ORDERID	OrderDate	CUSTFNAME	CUSTLNAME	SALESREPID	SALESREPFNAME	
SALESREPLNAME						
	100 01/24/22	John	Smith	10	Alice	
Jones	101 01/25/22	Jane	Adams	12	Greg	
Taylor	102 01/25/22	Tim	Jones	14	Sara	Day
	103 01/26/22	Ann	Brown	8	Kay	
Price	104 01/26/22	John	Smith	10	Alice	
Jones	105 01/26/22	Ann	Brown	8	Kay	
Price	106 01/27/22	Kate	Green	20	Bob	
Jackson	107 01/27/22	Tim	Jones	14	Sara	Day
	108 01/28/22	Nicole	Sims	22	Micah	
Moore	109 01/28/22	Amanda	Green	14	Sara	Day

10 rows selected.

```

SQL>
SQL> --9.
SQL>
SQL> SELECT O.OrderID, P.ProdID, P.ProdName, P.ProdCatID AS "CatID",
2 O.ProdPrice AS "Price", O.ProdQty AS "Qty", (O.ProdPrice*O.ProdQty) AS
"ExtPrice"
3 FROM ORDERDETAIL_AT O, PRODUCT_AT P
4 WHERE O.ProdID = P.ProdID AND
5 OrderID = 104
6 ORDER BY "ExtPrice";

```

ORDERID	PRODID	PRODNAME	CatID	Price	Qty	ExtPrice
104	380	Acme Yard St	3	1.25	2	2.5

ick

104	535 Schlage Door	5	7.5	4	30
	Knob				

104	229 BD Power Dri	2	50	1	50
	11				

104	610 3M Duct Tape	6	1.75	200	350
-----	------------------	---	------	-----	-----

SQL>

SQL> --10.

SQL>

```
SQL> SELECT D.DeptID AS "DeptID", DeptName AS "DeptName", COUNT(SalesRepID) AS
"SalesRepCount", (AVG(CommRate)*100) || '%' AS "AvgCommRate"
  2 FROM DEPARTMENT_AT D, COMMISSION_AT C, SALESREP_AT S
  3 WHERE D.DeptID = S.DeptID AND
  4 C.CommClass = S.CommClass
  5 GROUP BY D.DeptID, DeptName
  6 ORDER BY "AvgCommRate" ASC;
```

DeptID	DeptName	SalesRepCount	AvgCommRate
--------	----------	---------------	-------------

16	Web Sales	1	0%
10	Store Sales	3	6%
14	Corp Sales	2	6.5%

SQL>

SQL> --11.

```
SQL> SELECT SalesRepID, SalesRepFName, SalesRepLName, DeptName, C.CommClass, CommRate
  2 FROM SALESREP_AT S, COMMISSION_AT C, DEPARTMENT_AT
  3 WHERE C.CommClass = S.CommClass
  4 AND CommRate > 0
  5 ORDER BY S.SalesRepID;
```

SALESREPID	SALESREPFNAME	SALESREPLNAME	DEPTNAME	COMMCLASS	COMMRATE
------------	---------------	---------------	----------	-----------	----------

8	Kay	Price	Corp Sales	C	.05
8	Kay	Price	Store Sales	C	.05
8	Kay	Price	Web Sales	C	.05
10	Alice	Jones	Web Sales	A	.1
10	Alice	Jones	Store Sales	A	.1
10	Alice	Jones	Corp Sales	A	.1
12	Greg	Taylor	Corp Sales	B	.08
12	Greg	Taylor	Store Sales	B	.08
12	Greg	Taylor	Web Sales	B	.08
20	Bob	Jackson	Store Sales	B	.08
20	Bob	Jackson	Corp Sales	B	.08

SALESREPID	SALESREPFNAME	SALESREPLNAME	DEPTNAME	COMMCLASS	COMMRATE
20	Bob	Jackson	Web Sales	B	.08

12 rows selected.

SQL>

SQL>

SQL> --12.

```
SQL> SELECT SalesRepID, (SalesRepFName || ' ' || SalesRepLName) AS
"SalesRep_Name", D.DeptID, DeptName
  2 FROM SALESREP_AT S, DEPARTMENT_AT D
  3 WHERE S.DeptID = D.DeptID AND CommClass = 'A'
  4 ORDER BY D.DeptID, SalesRepID;
```

SALESREPID SalesRep_Name

DEPTID DEPTNAME

10	Alice Jones	10	Store Sales
----	-------------	----	-------------

```

SQL>
SQL> --13.
SQL>
SQL> SELECT OrderID AS "Order_ID", TO_CHAR(SUM(ProdPrice * ProdQty), '$999.99') AS
"Order_Total"
  2  FROM ORDERDETAIL_AT O
  3  WHERE OrderID = 104
  4  GROUP BY OrderID;

```

```

Order_ID Order_To

```

```

-----

```

```

      104  $432.50

```

```

SQL>
SQL> --14.
SQL> SELECT TO_CHAR((SUM(ProdPrice)/COUNT(ProdID)), '$999.99') AS "Avg_Price"
  2  FROM ORDERDETAIL_AT;

```

```

Avg_Pric

```

```

-----

```

```

      $17.56

```

```

SQL>
SQL> --15.
SQL> SELECT P.ProdID AS "ProductID", P.ProdName AS "Name", TO_CHAR(P.ProdPrice,
'$999.99') AS "Price"
  2  FROM PRODUCT_At P, ORDERDETAIL_AT O
  3  WHERE P.ProdID = O.ProdID
  4  GROUP BY P.ProdID, P.ProdName, P.ProdPrice
  5  HAVING COUNT(O.OrderID) = (
  6  SELECT MAX(ProdCount) FROM (
  7  SELECT COUNT(OrderID) AS ProdCount, ProdID
  8  FROM ORDERDETAIL_AT
  9  GROUP BY ProdID));

```

```

ProductID Name                      Price

```

```

-----

```

```

      121 BD Hammer                  $8.00

```

```

      610 3M Duct Tape                $1.75

```

```

SQL>
SQL>
SQL>
SQL> --16.
SQL>
SQL> SELECT ProdCatID AS "Cat_ID", ProdID AS "Prod_ID", ProdName AS "Prod_Name",
TO_CHAR(ProdPrice, '$999.99') AS " Price"
  2 FROM PRODUCT_AT
  3 WHERE (ProdCatID, ProdPrice) IN
  4 (SELECT ProdCatID, MIN(ProdPrice)
  5 FROM PRODUCT_AT
  6 GROUP BY ProdCatID);

```

Cat_ID	Prod_ID	Prod_Name	Price
1	123	Acme Pry Bar	\$5.00
2	229	BD Power Drill	\$50.00
3	380	Acme Yard Stick	\$1.25
4	480	1# BD Screws	\$3.00
5	535	Schlage Door Knob	\$7.50
6	618	3M Masking Tape	\$1.25

6 rows selected.

```

SQL>
SQL> --17.
SQL> SELECT ProdID, ProdName, ProdCatName, TO_CHAR(ProdPrice, '$999.99') AS
"ProdPrice"
  2 FROM PRODUCT_AT P, PRODCAT_AT PC
  3 WHERE P.ProdCatID = PC.ProdCatID AND
  4 ProdPrice > (SELECT AVG(ProdPrice) FROM PRODUCT_AT);

```

PRODID	PRODNAME	PRODCATNAME	ProdPric
228	Makita Power Tools		\$65.00
	Drill		

229 BD Power Dri Power Tools \$50.00

11

235 Makita Power Power Tools \$65.00

Drill

246 Milwaukee Po Power Tools \$179.00

wer Drill

PRODID	PRODNAME	PRODCATNAME	ProdPric
--------	----------	-------------	----------

```
SQL>
SQL>
SQL>
SQL> --18.
SQL>
SQL> SELECT OrderID AS "Order ID", TO_CHAR(OrderDate, 'mm-dd-yyyy') AS "Order Date",
C.CustID AS "Cust ID", (CustFName || ' ' || CustLName) AS "Name", CustPhone AS
"Phone"
  2 FROM CUSTOMER_AT C, ORDER_AT O
  3 WHERE C.CustID = O.CustID AND
  4 OrderDate <= DATE '2022-01-26'
  5 ORDER BY OrderDate, C.CustID;
```

Order ID	Order Date	Cust ID	Name	Phone
----------	------------	---------	------	-------

100	01-24-2022	S100	John Smith	2145551212
-----	------------	------	------------	------------

101	01-25-2022	A120	Jane Adams	8175553434
-----	------------	------	------------	------------

102	01-25-2022	J090	Tim Jones	NULL
-----	------------	------	-----------	------

105	01-26-2022	B200	Ann Brown	8175558918
-----	------------	------	-----------	------------

103	01-26-2022	B200	Ann Brown	8175558918
-----	------------	------	-----------	------------

6 rows selected.

SQL>

SQL>

SQL> --19.

SQL> SELECT CustID, CustFName AS "FirstName", CustLName AS "LastName"

2 FROM CUSTOMER_AT

3 WHERE CustFName LIKE '%A'

4 ORDER BY CustLName;

no rows selected

SQL>

SQL> --20.

SQL> SELECT CustID AS "Customer ID" ,(CustFName || ' ' || CustLName) AS "Name" ,

2 SUBSTR(CustPhone,1,3) || '-' || SUBSTR(CustPhone,4,3) || '-' ||

SUBSTR(CustPhone,7,4) as "Phone"

3 FROM CUSTOMER_AT

4 WHERE SalesRepID = 12;

Custo Name

Phone

A120 Jane Adams

817-555-3434

SQL>

SQL>

SQL>

SQL>

SQL>

SQL> --Turn off Logging

SQL> spool off