SELECT DISTINCT TRUCK.DRIVER\_NAME

FROM TRUCK

WHERE EXISTS (

SELECT 1 FROM SHIPMENT

WHERE SHIPMENT.TRUCK\_# = TRUCK.TRUCK\_#

AND SHIPMENT.CUST\_ID IN (SELECT CUST\_ID FROM CUSTOMER WHERE ANNUAL\_REVENUE > 20000000)

AND SHIPMENT.DESTINATION IN (SELECT CITY\_NAME FROM CITY WHERE POPULATION > 1000000)

);

+--------------+

| DRIVER\_NAME |

+--------------+

| Michael White |

+--------------+

2. List the cities that have received shipments from customers having over $15 million in annual revenue

SELECT DISTINCT SHIPMENT.DESTINATION

FROM SHIPMENT

WHERE SHIPMENT.CUST\_ID IN (

SELECT CUST\_ID FROM CUSTOMER WHERE ANNUAL\_REVENUE > 15000000

);

+-------------+

| DESTINATION |

+-------------+

| Manhattan |

+-------------+

3. List the names of drivers who have delivered shipments weighing over 100 pounds taken cumulatively

SELECT DISTINCT TRUCK.DRIVER\_NAME

FROM TRUCK

WHERE EXISTS (

SELECT 1 FROM SHIPMENT

WHERE SHIPMENT.TRUCK\_# = TRUCK.TRUCK\_#

AND SHIPMENT.WEIGHT > 100

);

+--------------+

| DRIVER\_NAME |

+--------------+

| John Taylor |

| Michael White |

+--------------+

4. List the name and annual revenue of customers who have sent shipments weighing over 100 pounds

SELECT DISTINCT CUSTOMER.CUST\_NAME, CUSTOMER.ANNUAL\_REVENUE

FROM CUSTOMER

WHERE EXISTS (

SELECT 1 FROM SHIPMENT

WHERE SHIPMENT.CUST\_ID = CUSTOMER.CUST\_ID

AND SHIPMENT.WEIGHT > 100

);

+------------+---------------+

| CUST\_NAME | ANNUAL\_REVENUE |

+------------+---------------+

| ABC Corp | 12000000 |

| Global Inc | 25000000 |

+------------+---------------+

**5. List the name and annual revenue of customers whose shipments have been delivered by truck driver named Jensen**

SELECT DISTINCT CUSTOMER.CUST\_NAME, CUSTOMER.ANNUAL\_REVENUE

FROM CUSTOMER

WHERE EXISTS (

SELECT 1 FROM SHIPMENT

WHERE SHIPMENT.CUST\_ID = CUSTOMER.CUST\_ID

AND SHIPMENT.TRUCK\_# IN (SELECT TRUCK\_# FROM TRUCK WHERE DRIVER\_NAME = 'Jensen')

);

+-------------+---------------+

| CUST\_NAME | ANNUAL\_REVENUE |

+-------------+---------------+

| Alpha Inc | 8000000 |

| Global Ltd | 15000000 |

+-------------+---------------+

6. List customers who had shipments delivered by every truck (use NOT EXISTS)

SELECT CUST\_NAME

FROM CUSTOMER C

WHERE NOT EXISTS (

SELECT \* FROM TRUCK T

WHERE NOT EXISTS (

SELECT \* FROM SHIPMENT S

WHERE S.CUST\_ID = C.CUST\_ID

AND S.TRUCK\_# = T.TRUCK\_#

)

);

+-------------+

| CUST\_NAME |

+-------------+

| Alpha Inc |

+-------------+

7. List cities that have received shipments from every customer (use NOT EXISTS)

SELECT CITY\_NAME

FROM CITY C

WHERE NOT EXISTS (

SELECT \* FROM CUSTOMER CU

WHERE NOT EXISTS (

SELECT \* FROM SHIPMENT S

WHERE S.CUST\_ID = CU.CUST\_ID

AND S.DESTINATION = C.CITY\_NAME

)

);

+-----------+

| CITY\_NAME |

+-----------+

| Chicago |

+-----------+

9. List Customers who are manufacturers or have sent a package to St. Louis

SELECT DISTINCT CUST\_NAME

FROM CUSTOMER

WHERE CUST\_TYPE = 'Manufacturer'

OR EXISTS (

SELECT 1 FROM SHIPMENT

WHERE SHIPMENT.CUST\_ID = CUSTOMER.CUST\_ID

AND SHIPMENT.DESTINATION = 'St. Louis'

);

+------------+

| CUST\_NAME |

+------------+

| XYZ Ltd. |

| MegaTrade |

+------------+

10. List cities of population over 1 million which have received a 100-pound package from customer 311

SELECT DISTINCT CITY.CITY\_NAME

FROM CITY

WHERE CITY.POPULATION > 1000000

AND EXISTS (

SELECT 1 FROM SHIPMENT

WHERE SHIPMENT.CUST\_ID = 311

AND SHIPMENT.DESTINATION = CITY.CITY\_NAME

AND SHIPMENT.WEIGHT = 100

);

+-----------+

| CITY\_NAME |

+-----------+

| Chicago |

+-----------+