```
Create database Retail and Warehouse sales;
DROP database Retail and Warehouse sales;
USE Retail and Warehouse sales;
CREATE TABLE retail (
    YEAR INT,
    MONTH INT,
    SUPPLIER VARCHAR (255),
    ITEM CODE VARCHAR (50),
    ITEM DESCRIPTION VARCHAR (255),
    ITEM TYPE VARCHAR (50),
    RETAIL SALES DECIMAL(10, 2),
    RETAIL TRANSFERS DECIMAL(10, 2)
);
CREATE TABLE warehouse (
    YEAR INT,
    MONTH INT,
    SUPPLIER VARCHAR (255),
    ITEM CODE VARCHAR (50),
    ITEM DESCRIPTION VARCHAR (255),
    ITEM TYPE VARCHAR (50),
    WAREHOUSE SALES DECIMAL(10, 2)
);
SELECT * FROM retail;
SELECT * FROM warehouse;
# Q1:) Retrieve all retail sales for a specific item in a given year and
month:
SELECT YEAR, MONTH, ITEM CODE, ITEM DESCRIPTION, RETAIL SALES
FROM retail
WHERE YEAR = 2020
  AND MONTH = 5
 AND ITEM CODE = '103608';
  # Q2:) Calculate the total retail sales for each item type in a specific
year:
SELECT YEAR, ITEM TYPE, SUM(RETAIL SALES) AS TOTAL RETAIL SALES
FROM retail
WHERE YEAR = 2019
GROUP BY YEAR, ITEM TYPE;
# Q3:) Find the top 5 suppliers by total warehouse sales in a particular
SELECT MONTH, SUPPLIER, SUM(WAREHOUSE SALES) AS TOTAL WAREHOUSE SALES
FROM warehouse
WHERE MONTH = 8
GROUP BY MONTH, SUPPLIER
ORDER BY TOTAL WAREHOUSE SALES DESC
LIMIT 5;
```

Q4:) Calculate the total retail transfers for a specific supplier across all years: SELECT SUPPLIER, SUM(RETAIL TRANSFERS) AS TOTAL RETAIL TRANSFERS FROM retail WHERE SUPPLIER = 'REPUBLIC NATIONAL DISTRIBUTING CO' GROUP BY SUPPLIER; # Q5:) Identify the items with no retail sales in a given month: SELECT DISTINCT r.ITEM CODE, r.ITEM DESCRIPTION FROM retail r LEFT JOIN warehouse w ON r.ITEM CODE = w.ITEM CODE AND r.YEAR = w.YEAR AND r.MONTH = w.MONTHWHERE r.YEAR = 20219AND r.MONTH = 10AND w.ITEM CODE IS NULL; # Q6:) Calculate the total warehouse sales for each item type in a specific year and month: SELECT YEAR, MONTH, ITEM TYPE, SUM (WAREHOUSE SALES) AS TOTAL WAREHOUSE SALES FROM warehouse WHERE YEAR = 2020AND MONTH = 6GROUP BY YEAR, MONTH, ITEM TYPE; # Q7:) Find the average retail sales for each item type across all SELECT ITEM TYPE, AVG(RETAIL SALES) AS AVERAGE RETAIL SALES FROM retail GROUP BY ITEM TYPE; # Q8:) Retrieve the top 3 items with the highest retail sales in a specific month: SELECT YEAR, MONTH, ITEM CODE, ITEM DESCRIPTION, RETAIL SALES FROM retail WHERE YEAR = 2018AND MONTH = 7ORDER BY RETAIL SALES DESC LIMIT 3; # Q9:) Find the total retail sales and warehouse sales for a specific item across all years: SELECT r.ITEM CODE, r.ITEM DESCRIPTION, SUM(r.RETAIL SALES) AS TOTAL RETAIL SALES, SUM(w.WAREHOUSE SALES) AS TOTAL WAREHOUSE SALES FROM retail r LEFT JOIN warehouse w ON r.ITEM CODE = w.ITEM CODE WHERE r.ITEM CODE = '100145'

```
# Q10:) Calculate the total retail transfers and warehouse sales for each
supplier in a specific year:
SELECT r.SUPPLIER, SUM(r.RETAIL_TRANSFERS) AS TOTAL_RETAIL_TRANSFERS,
SUM(w.WAREHOUSE SALES) AS TOTAL WAREHOUSE SALES
FROM retail r
LEFT JOIN warehouse w ON r.SUPPLIER = w.SUPPLIER AND r.YEAR = w.YEAR
WHERE r.YEAR = 2019
GROUP BY r.SUPPLIER;
# Q11:) Retrieve all items with retail sales greater than warehouse sales
in a specific month:
SELECT r.YEAR, r.MONTH, r.ITEM CODE, r.ITEM DESCRIPTION, r.RETAIL SALES,
w.WAREHOUSE SALES
FROM retail r
JOIN warehouse w ON r.ITEM CODE = w.ITEM CODE AND r.YEAR = w.YEAR AND
r.MONTH = w.MONTH
WHERE r.YEAR = 2020
 AND r.MONTH = 8
 AND r.RETAIL SALES > w.WAREHOUSE SALES;
# Q12:) Find the total retail sales and warehouse sales for each item
across all months and years
SELECT ITEM CODE, ITEM DESCRIPTION, SUM(RETAIL SALES) AS
TOTAL RETAIL SALES, SUM(WAREHOUSE SALES) AS TOTAL WAREHOUSE SALES
FROM (
    SELECT ITEM CODE, ITEM DESCRIPTION, RETAIL SALES, 0 AS WAREHOUSE SALES
    FROM retail
    UNION ALL
    SELECT ITEM CODE, ITEM DESCRIPTION, 0 AS RETAIL SALES, WAREHOUSE SALES
    FROM warehouse
) AS combined sales
GROUP BY ITEM CODE, ITEM DESCRIPTION;
# Q13:) Retrieve the top 3 months with the highest total retail sales:
SELECT YEAR, MONTH, SUM(RETAIL SALES) AS TOTAL RETAIL SALES
FROM retail
GROUP BY YEAR, MONTH
ORDER BY TOTAL RETAIL SALES DESC
LIMIT 3;
```