```
/*-- Calculate landing, maintenance, fuelling, and parking fees for the
selected customer*/
SELECT
   CASE
        WHEN Customer.Customer Type = 'corporation' THEN 'Corporation'
        ELSE 'Not a Corporation'
   END AS Customer Type,
   Aircraft. Aircraft Registration Number,
   SUM(Flight Record.Landing Fee) AS total landing fees,
   SUM (Maintenance_Record.Maintenance Cost) AS total maintenance fees,
    SUM(Fuelling Record.Fuelling Cost) AS total fuelling fees,
   SUM(Parking Record.Parking Cost) AS total parking fees
FROM
   Flight Record
JOIN
   Aircraft ON Flight Record. Aircraft Registration Number =
Aircraft Registration Number
JOIN
   Customer ON Aircraft.Customer ID = Customer.Customer ID
LEFT JOIN
   Maintenance Record ON Aircraft. Aircraft Registration Number =
Maintenance Record. Aircraft Registration Number
LEFT JOIN
   Fuelling Record ON Aircraft.Aircraft Registration Number =
Fuelling Record. Aircraft Registration Number
   Parking Record ON Aircraft. Aircraft Registration Number =
Parking Record. Aircraft Registration Number
WHERE
   Customer.Customer ID = 2
   AND Flight Record. Flight Date And Time BETWEEN '2024-02-01' AND '2024-
02-29'
GROUP BY
   Customer.Customer Type,
   Aircraft.Aircraft Registration Number;
/*-- List pilots who are also customers and made the most take-offs and
landings*/
SELECT
   Pilot.Customer ID,
   Pilot.Pilot ID,
   COUNT (Flight Record. Flight ID) AS total flights,
   Aircraft.Aircraft Type,
   Aircraft Registration Number
FROM
   Pilot
JOIN
   Flight Record ON Pilot.Pilot ID = Flight Record.Pilot ID
JOIN
   Aircraft ON Flight Record. Aircraft Registration Number =
Aircraft.Aircraft Registration Number
WHERE
    Flight Record. Flight Date And Time BETWEEN '2024-02-01' AND '2024-02-
291
```

```
GROUP BY
    Pilot.Customer_ID, Pilot.Pilot ID, Aircraft.Aircraft Type,
Aircraft.Aircraft Registration Number
ORDER BY
    total flights DESC;
    -- Select the customer ID associated with the specified corporation
SELECT @Customer ID = Customer ID FROM Corporation WHERE Corporation ID =
SELECT
    Aircraft. Aircraft Registration Number,
    Maintenance Record. Maintenance Date,
    Airport Employee. Employee ID,
    Airport Employee. Employee name,
    Airport Employee. Maintenance Skillsets
FROM
    Aircraft
JOIN
    Maintenance Record ON Aircraft. Aircraft Registration Number =
Maintenance Record. Aircraft Registration Number
    Airport Employee ON Maintenance Record. Employee ID =
Airport Employee. Employee ID
WHERE
    Aircraft.Customer ID = 2
    AND Maintenance Record.Maintenance Date BETWEEN '2024-02-01' AND
'2024-02-29';
SELECT @Customer ID = Customer ID FROM Corporation WHERE Corporation ID =
101;
-- List all parts used in a service per aircraft type, part number, and
part name
SELECT
    Aircraft.Aircraft Type,
    Maintenance Record. Aircraft Registration Number AS
aircraft registration number,
    Maintenance Record. Maintenance Date,
    Aircraft Accessories. Aircraft Accessories ID,
    Aircraft Accessories. Accessory Name
    Maintenance Record
JOIN
    Aircraft ON Maintenance Record. Aircraft Registration Number =
Aircraft.Aircraft Registration Number
    Aircraft Accessories ON Maintenance Record.Aircraft_Accessories_ID =
Aircraft Accessories. Aircraft Accessories ID
WHERE
    Aircraft.Customer ID = 2
    AND Maintenance Record.Maintenance Date BETWEEN '2024-02-01' AND
'2024-02-29';
SELECT
    Aircraft.Aircraft_Type,
```

```
Aircraft Model. Model Number,
    Aircraft. Aircraft Registration Number,
    SUM(Flight Record.Landing Fee + COALESCE(Parking Record.Parking Cost,
0) +
        COALESCE (Fuelling Record. Fuelling Cost, 0) +
COALESCE(Cleaning Record.Cleaning Cost, 0) +
        COALESCE (Maintenance Record. Maintenance Cost, 0) +
COALESCE (Storage Record.Storage Cost, 0)) AS total revenue per aircraft
FROM
    Flight Record
JOIN
    Aircraft ON Aircraft.Aircraft Registration Number =
Flight Record.Aircraft Registration Number
LEFT JOIN
   Parking Record ON Aircraft.Aircraft Registration Number =
Parking Record. Aircraft Registration Number
LEFT JOIN
    Fuelling Record ON Aircraft. Aircraft Registration Number =
Fuelling Record.Aircraft Registration Number
LEFT JOIN
    Cleaning Record ON Aircraft. Aircraft Registration Number =
Cleaning Record. Aircraft Registration Number
LEFT JOIN
    Maintenance Record ON Aircraft.Aircraft Registration Number =
Maintenance Record. Aircraft Registration Number
    Storage Record ON Aircraft. Aircraft Registration Number =
Storage Record.Aircraft Registration Number
LEFT JOIN
    Aircraft Model ON Aircraft.Model Number = Aircraft Model.Model Number
WHERE
    Flight Record.Flight Date And Time BETWEEN '2024-02-01' AND '2024-02-
291
    AND Aircraft.Aircraft Registration Number IS NOT NULL
    AND Aircraft Model.Model Number IS NOT NULL
    AND Aircraft Aircraft Registration Number <> '' -- Exclude rows with
empty registration numbers
    AND Aircraft Model.Model Number <> '' -- Exclude rows with empty
model numbers
GROUP BY
    Aircraft.Aircraft Type,
    Aircraft Model.Model Number,
    Aircraft.Aircraft Registration Number;
SELECT SUM(total revenue per aircraft) AS total revenue
FROM (
    SELECT
        Aircraft.Aircraft Type,
        Aircraft Model. Model Number,
        Aircraft.Aircraft Registration Number,
        SUM(Flight Record.Landing Fee +
COALESCE(Parking Record.Parking Cost, 0) +
            COALESCE (Fuelling Record. Fuelling Cost, 0) +
COALESCE(Cleaning Record.Cleaning Cost, 0) +
```

```
COALESCE (Maintenance Record.Maintenance Cost, 0) +
COALESCE (Storage Record.Storage Cost, 0)) AS total revenue per aircraft
       Flight Record
   JOIN
        Aircraft ON Aircraft.Aircraft Registration Number =
Flight Record.Aircraft Registration Number
   LEFT JOIN
        Parking Record ON Aircraft.Aircraft Registration Number =
Parking Record. Aircraft Registration Number
   LEFT JOIN
       Fuelling Record ON Aircraft.Aircraft Registration Number =
Fuelling Record.Aircraft Registration Number
   LEFT JOIN
       Cleaning Record ON Aircraft. Aircraft Registration Number =
Cleaning Record. Aircraft Registration Number
   LEFT JOIN
       Maintenance Record ON Aircraft.Aircraft Registration Number =
Maintenance Record. Aircraft Registration Number
   LEFT JOIN
        Storage Record ON Aircraft.Aircraft Registration Number =
Storage Record. Aircraft Registration Number
   LEFT JOIN
       Aircraft Model ON Aircraft.Model Number =
Aircraft Model.Model Number
        Flight Record.Flight Date And Time BETWEEN '2024-02-01' AND '2024-
02-29
       AND Aircraft Aircraft Registration Number IS NOT NULL
        AND Aircraft Model.Model Number IS NOT NULL
       AND Aircraft_Registration Number <> '' -- Exclude rows
with empty registration numbers
       AND Aircraft Model.Model Number <> '' -- Exclude rows with empty
model numbers
   GROUP BY
       Aircraft.Aircraft Type,
        Aircraft Model. Model Number,
       Aircraft.Aircraft Registration Number
) AS revenue per aircraft;
```