20123505 IDS Case Study

**Logic View POPULARFLIGHT**

CREATE VIEW POPULARFLIGHT AS  
SELECT Flight\_No, COUNT(Flight\_No) AS MOSTPOPULAR FROM INVOICE  
GROUP BY Flight\_No  
ORDER BY MOSTPOPULAR DESC;

**Test Result**

1. **List each special requests during a week on different flight:**
2. **Child meal:**

select INVOICE.Flight\_No, INVOICE.Invoice\_Date, INVOICE.Passenger\_No, INVOICE.Invoice\_No, INVOICE.Invoice\_SeatRow, INVOICE.Invoice\_SeatNo,

PASSENGER.Passenger\_FirstName, PASSENGER.Passenger\_LastName, INVOICE.Invoice\_ChildMeal

from INVOICE, PASSENGER

where Invoice\_ChildMeal like "YES" and INVOICE.Passenger\_No = PASSENGER.Passenger\_No;

1. **Vegetarian Meal:**

select INVOICE.Flight\_No, INVOICE.Invoice\_Date, INVOICE.Passenger\_No, INVOICE.Invoice\_No, INVOICE.Invoice\_SeatRow, INVOICE.Invoice\_SeatNo,

PASSENGER.Passenger\_FirstName, PASSENGER.Passenger\_LastName, INVOICE.Invoice\_VegetarianMeal

from INVOICE, PASSENGER

where Invoice\_VegetarianMeal like "YES" and INVOICE.Passenger\_No = PASSENGER.Passenger\_No;

1. **Use of wheel chairs:**

select INVOICE.Flight\_No, INVOICE.Invoice\_Date, INVOICE.Passenger\_No, INVOICE.Invoice\_No, INVOICE.Invoice\_SeatRow, INVOICE.Invoice\_SeatNo,

PASSENGER.Passenger\_FirstName, PASSENGER.Passenger\_LastName, INVOICE.Invoice\_WheelChairs

from INVOICE, PASSENGER

where Invoice\_WheelChairs like "YES" and INVOICE.Passenger\_No = PASSENGER.Passenger\_No;

1. **Over-sized Luggages:**

select INVOICE.Flight\_No, INVOICE.Invoice\_Date, INVOICE.Passenger\_No, INVOICE.Invoice\_No, INVOICE.Invoice\_SeatRow, INVOICE.Invoice\_SeatNo,

PASSENGER.Passenger\_FirstName, PASSENGER.Passenger\_LastName, INVOICE.Invoice\_OverSizedLuggages

from INVOICE, PASSENGER

where Invoice\_OverSizedLuggages like "YES" and INVOICE.Passenger\_No = PASSENGER.Passenger\_No;

1. **Overweight Luggages:**

select INVOICE.Flight\_No, INVOICE.Invoice\_Date, INVOICE.Passenger\_No, INVOICE.Invoice\_No, INVOICE.Invoice\_SeatRow, INVOICE.Invoice\_SeatNo,

PASSENGER.Passenger\_FirstName, PASSENGER.Passenger\_LastName, INVOICE.Invoice\_OverWeightLuggages

from INVOICE, PASSENGER

where Invoice\_OverWeightLuggages like "YES" and INVOICE.Passenger\_No = PASSENGER.Passenger\_No;

**2. List the most popular row and seat that customer chosen**

**i. most popular row:**

select INVOICE.Invoice\_SeatRow, INVOICE.Class\_Code, count(INVOICE.Invoice\_SeatRow) as MostPopularRow

from INVOICE

GROUP BY INVOICE.Invoice\_SeatRow

ORDER BY MostPopularRow DESC;

**ii. most popular seat:**

select INVOICE.Invoice\_SeatNo, INVOICE.Class\_Code, count(INVOICE.Invoice\_SeatNo) as MostPopularNo

from INVOICE

GROUP BY INVOICE.Invoice\_SeatNo

ORDER BY MostPopularNo DESC;

**3. List all passenger on the most popular flight(CFX75) in a week and its VIP special service**

select INVOICE.Flight\_No, INVOICE.Passenger\_No, PASSENGER.Passenger\_FirstName, PASSENGER.Passenger\_LastName, PASSENGER.VIP\_Code,

VIP.VIP\_Lounge, VIP.VIP\_PriorityBoarding, VIP.VIP\_WelcomeDrink

from INVOICE, PASSENGER, VIP

where INVOICE.Flight\_No like "CFX75" and INVOICE.Passenger\_No = PASSENGER.Passenger\_No and PASSENGER.VIP\_Code = VIP.VIP\_Code;

**4. List the total people of different food allergies**

select PASSENGER.FoodAllergies\_Code, COUNT(PASSENGER.FoodAllergies\_Code) as MostAllergiesFoodOnOurPassenger

from PASSENGER

GROUP BY PASSENGER.FoodAllergies\_Code

ORDER BY MostAllergiesFoodOnOurPassenger DESC;

**5. List all passenger who need to pay attention and tack care to them, such as medical device and assistance dog**

**i. medical device**

select INVOICE.Invoice\_Date, INVOICE.Flight\_No, INVOICE.Passenger\_No, INVOICE.Invoice\_SeatRow ,INVOICE.Invoice\_SeatNo,

PASSENGER.Passenger\_FirstName, PASSENGER.Passenger\_LastName, PASSENGER.Passenger\_Gender, PASSENGER.Passenger\_MedicalDevice

from PASSENGER, INVOICE

where INVOICE.Passenger\_No = PASSENGER.Passenger\_No and PASSENGER.Passenger\_MedicalDevice like "%yes%" ;

**ii. assistance dog**

select INVOICE.Invoice\_Date, INVOICE.Flight\_No, INVOICE.Passenger\_No, INVOICE.Invoice\_SeatRow ,INVOICE.Invoice\_SeatNo,

PASSENGER.Passenger\_FirstName, PASSENGER.Passenger\_LastName, PASSENGER.Passenger\_Gender, PASSENGER.Passenger\_AssistanceDog

from PASSENGER, INVOICE

where INVOICE.Passenger\_No = PASSENGER.Passenger\_No and PASSENGER.Passenger\_AssistanceDog like "%yes%" ;

**6. Find the passenger who always take our company’s flight**

select INVOICE.Passenger\_No, PASSENGER.Passenger\_FirstName, PASSENGER.Passenger\_LastName, PASSENGER.Passenger\_Gender,

PASSENGER.Passenger\_Birthday, Count (INVOICE.Passenger\_No) as Most\_TakeAFlight

from INVOICE,PASSENGER

where INVOICE.Passenger\_No = PASSENGER.Passenger\_No

GROUP BY INVOICE.Passenger\_No

ORDER BY Most\_TakeAFlight DESC;

**7. List all the passenger information who take flight on 2022/4/5 using LEFT OUTER JOIN**

select invoice.Invoice\_No, invoice.Flight\_No,

invoice.Invoice\_Date, invoice.Passenger\_No, Passenger.Passenger\_FirstName, Passenger.Passenger\_LastName,

Passenger.Passenger\_Gender, Passenger.Passenger\_PhoneNumber, Passenger.Passenger\_Email

FROM invoice LEFT OUTER JOIN Passenger

on invoice.Passenger\_No = Passenger.Passenger\_No

where invoice.Invoice\_Date = "2022-04-05" ;