##### Assignment 5: SQL

##### Instructions

Refer to the below table of the special meal ordering service for the passengers who travel with Yoshi Airlines:

**FLIGHT AIRPORT**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Flight\_ID** | **Depart\_Airport** |  | **Airport** | **Airport\_Name** | **Region** |
| IS617 | KIX |  | HKG | Hong Kong | Asia |
| IS658 | HKG |  | KIX | Kansai, Osaka | Asia |
| IS676 | HKG |  | NRT | Narita, Tokyo | Asia |
| IS679 | OKA |  | OKA | Naha, Okinawa | Asia |
| … | … |  | … | … | … |

**PASSENGER MEAL**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Passenger\_ID** | **P\_Name** |  | **Meal** | **Meal\_Description** |
| P5260 | Brendon Lee |  | BABY | Baby meal |
| P5270 | Lily So |  | HINDU | Hindu meal |
| P5290 | Jason Ma |  | LOWFC | Low fat or cholesterol |
| P6260 | Sam Tang |  | VEG | Vegan meal |
| … | … |  | … | … |

**SPECIAL\_MEAL\_ORDER**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Flight\_ID** | **Flight\_Date** | **Passenger\_ID** | **Seat\_Nbr** | **Meal** |
| IS676 | 12-SEP-2021 | P5260 | 43A | BABY |
| IS676 | 12-SEP-2021 | P5290 | 12A | LOWFC |
| IS658 | 20-SEP-2021 | P5270 | (null) | VEG |
| IS658 | 27-SEP-2021 | P5270 | 34B | LOWFC |
| … | … | … | … | … |

Assume a passenger may request to change the seat without affecting the special meal selection.

Q1. Write a SQL statement to create the SPECIAL\_MEAL\_ORDER table above. (2 marks)

Q2. Write a SQL statement to add a new column, P\_DOB to the PASSENGER table for storing their birth dates. (1 mark)

Q3. Write a SQL statement to change the max length of Meal\_Description of the MEAL table to be 100. (1 mark)

Q4. Write a SQL statement to drop the Region column from the AIRPORT table. (1 mark)

Q5. Write a SQL statement to remove the FLIGHT table. (1 mark)

Q6. Write a SQL statement to insert a new record to the PASSENGER table, with ID ‘P6000’, name ‘Samuel Lai’ and Date of Birth 2 September 2000. (1 mark)

Q7. Write a SQL statement to remove the new PASSENGER record we have just created in Q6. (1 mark)

Q8. Write a SQL statement to change the departure airport (Depart\_Airport) to be Narita, Tokyo (‘NRT’) for the flight with ID IS600. (1 mark)

Q9. Write a SQL statement to display the name of Passenger P5260. (1 mark)

Q10. Write a SQL statement to display the flight records with special meal ordering from ‘Lily So’. Include the flight ID, date, and seat number in the result, and sort by the flight date in descending order. (3 marks)

Q11. Write a SQL statement to count the number of passengers requested special meal services for each flight offered by Yoshi Airlines on ’12-SEP-2021’. List the ID and departure airport name of the flight, and also the count in the result. (3 marks)

Q12. Write a SQL statement to list the passengers who have made special orders on two or more different meals. Include the passenger ID and name in the result. (4 marks)