

# **DATABASE DESIGN FOR TRANSPORTATION MANAGEMENT SYSTEM**

## **TABLE OF CONTENTS**

1. Introduction .....	2
2. Company Background .....	3
3. Current System Description .....	4
4. Current System Problem.....	4
5. System Objective .....	5
6. System Scope .....	5
7. Entity Relationship Diagram (ERD).....	6

## 1. Introduction

### **PROJECT TITLE: TRANSPORTATION MANAGEMENT SYSTEM**

This project is specifically designed about an airplane agency that act as transportation devices to move people from one place to another. Not only in local country, but we also provide the destination around the world. The purpose of this project is to design and record the passengers flight schedule and rates, managing reservation request and cancelation and number of tickets sold.

Royale' Airlines is an international airline company founded by Park Seojun with the backing of Royale' Major in 2014 and owned by Royale' Family Group. Its site launched in June 2014 with a business model in television and advertisements in the social media and Internet. In January 2017, Royale' Airlines is the largest airline operator in Southeast Asia based on average monthly flights ticket sales. In December 2020, Royale' Airlines claimed it was the top airline platform in Southeast Asia with more than 40 million active passengers who have used this airline annually.

## 2. Company Background

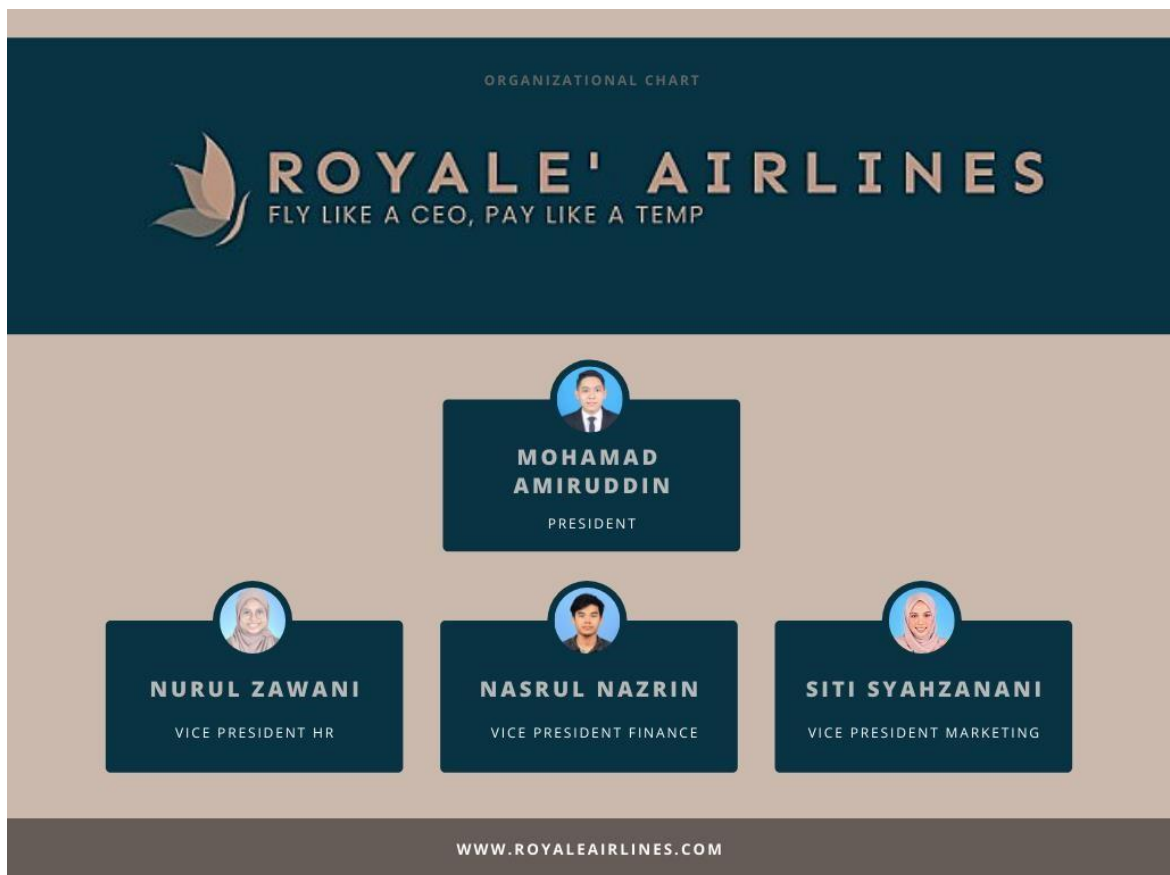
### Objectives of Transportation Management Unit:

To design and record the passengers flight schedule and rates, managing reservation request and cancelation also number of tickets sold.

### Transportation Management Unit Functions:

President	:	Making major decisions, main assets of the company and managing the overall operations
Vice President HR	:	Staff : Requirement, Department
Vice President Finance	:	Accounts : Account Department, Tax Department Vice
President Marketing	:	Customer Service, Sales

### Transportation Management Unit Structure:



### 3. Current System Description

#### i. Collect data from passengers. -

Flight schedule.

- Number of tickets sold.
- Reservation/cancelation date and time.
- Destination.
- Analyze the flight classes (first class, business, economy).
- Record the payment details by customer.

#### ii. Manage the data collected.

- Record all the data in suitable charts.
- Analyze the recorded flight data to improve the safety of flight operations.
- Encrypt all the passenger's data to secure their privacy.
- Save the payment slip and data.

### 4. Current System Problem

#### i. Problem faced.

##### Privacy and security:

High potential risks associated with big data when it comes to the privacy and the security of the data. This leads to a high risk of exposure of the data, making it vulnerable. Thus, the rise of amount of data increases privacy and security concerns.

##### Data analysis:

It is hard to analysis the scale of an organization as the amount of data collected grows. Collecting information and creating reports becomes increasingly complex because a system that can develop with the organization is crucial to manage this issue.

#### ii. Solution.

##### Privacy and security:

Encrypt all the passenger's data to secure their privacy by dividing the tasks to several department with specific job scope.

Data analysis:

Since the data received keep on increasing, we can improve the management of data and organize it thoroughly.

## 5. System Objective

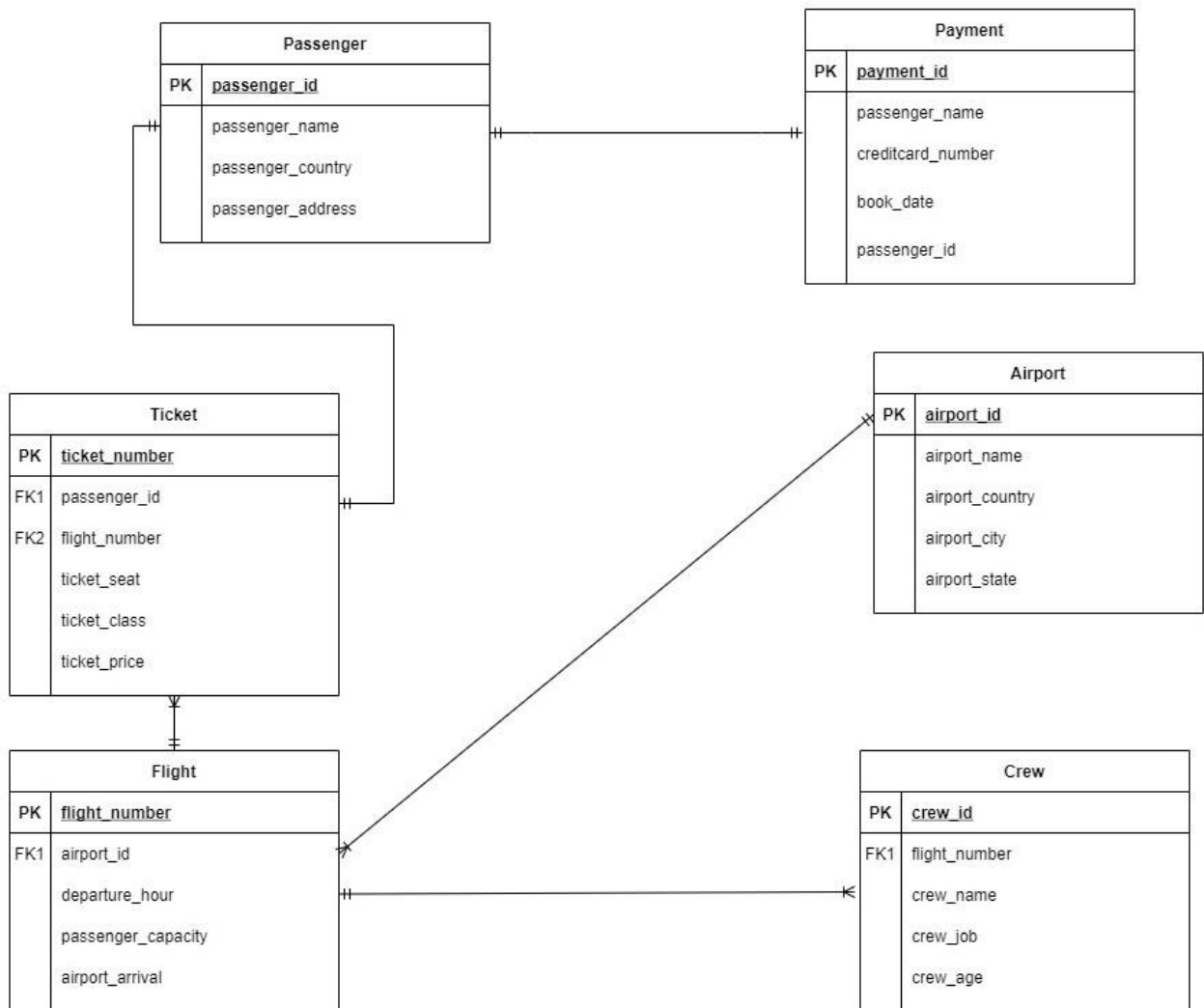
- i. To enable the passengers fly without hesitation.
- ii. To facilitate passenger's flight needed by business traveler.
- iii. To design and record the passengers flight schedule and rates, managing reservation request and cancelation and number of tickets sold.
- iv. To ease the handling and arrangement of company database.

## 6. System Scope

This system is developed for the transportation management unit for the purpose to manage Royale' Airline's data. The users of this system are the company organization and passengers.

- A passenger can only have one ticket and one ticket can only have one passenger.
- A passenger can only make one payment and each payment is assign to only one passenger.
- A ticket can only belong to one flight and each flight valid for one or many tickets.
- A flight can only departure and arrive at one airport and one airport can have one or many flights at a time.
- A crew can only belong to one flight and a flight can have one or many crews.

## 7. Entity Relationship Diagram (ERD)



## 8. 3NF

Passenger (passenger\_id, passenger\_name, passenger\_country, passenger\_address)

Payment (payment\_id, passenger\_name, creditcard\_number, book\_date, passenger\_id)

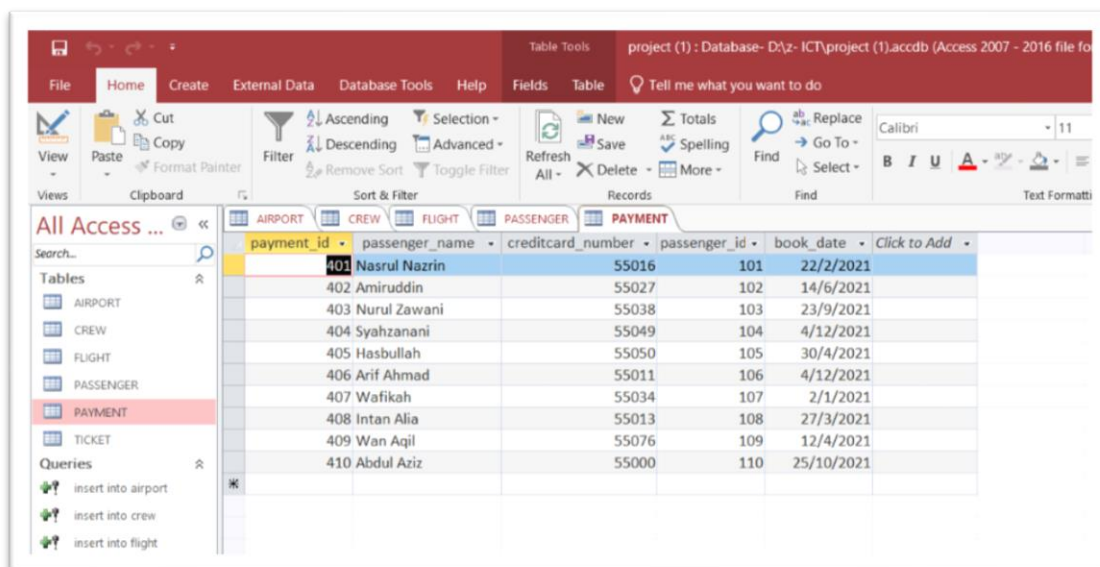
Ticket (ticket\_number, passenger\_id, flight\_number, ticket\_seat, ticket\_class, ticket\_price)

Flight (flight\_number, airport\_id, departure\_hour, passenger\_capacity, airport\_arrival)

Airport (airport\_id, airport\_name, airport\_country, airport\_city, airport\_state)

Crew (crew\_id, flight\_number, crew\_name, crew\_job, crew\_age)

## 9. Tables



payment_id	passenger_name	creditcard_number	passenger_id	book_date
101	Nasrul Nazrin	55016	101	22/2/2021
402	Amiruddin	55027	102	14/6/2021
403	Nurul Zawani	55038	103	23/9/2021
404	Syahzanani	55049	104	4/12/2021
405	Hasbullah	55050	105	30/4/2021
406	Arif Ahmad	55011	106	4/12/2021
407	Wafikah	55034	107	2/1/2021
408	Intan Alia	55013	108	27/3/2021
409	Wan Aqil	55076	109	12/4/2021
410	Abdul Aziz	55000	110	25/10/2021

project (1) : Database- D:\z- ICT\project (1).accdb (Access 2007 - 2016 file format) -

File Home Create External Data Database Tools Help Fields Table Tell me what you want to do

View Paste Cut Copy Filter Ascending Descending Selection Advanced Refresh Save Totals Spelling Find Replace Go To Select

Views Clipboard Sort & Filter Records Text Formatting

All Access ...

Tables

- AIRPORT
- CREW
- FLIGHT
- PASSENGER
- PAYMENT
- TICKET

Queries

- insert into airport
- insert into crew
- insert into flight

ticketNumber	passenger_id	flight_number	ticket_seat	ticket_class	ticket_price	Click to Add
6601	101	1101 2A		Business	2100	
6602	102	1102 15E		Economy	800	
6603	103	1103 3C		Business	1400	
6604	104	1104 25F		Economy	500	
6605	105	1105 10B		Economy	700	
6606	106	1106 25E		Economy	500	
6607	107	1107 1B		Business	1456	
6608	108	1108 18F		Economy	560	
6609	109	1109 3D		Business	2500	
6610	110	1110 23A		Economy	700	

project (1) : Database- D:\z- ICT\project (1).accdb (Access 2007 - 2016 file format) - A

File Home Create External Data Database Tools Help Fields Table Tell me what you want to do

View Paste Cut Copy Filter Ascending Descending Selection Advanced Refresh Save Totals Spelling Find Replace Go To Select

Views Clipboard Sort & Filter Records Text Formatting

All Access ...

Tables

- AIRPORT
- CREW
- FLIGHT
- PASSENGER
- Paste Errors
- PAYMENT
- TICKET

Queries

- insert into airport
- insert into crew

airport_id	airport_name	airport_country	airport_city	airport_state	Click to Add
201	KLIA	Malaysia	Sepang	Selangor	
202	Suvarnabhumi Airport	Thailand	Samut Prakan	Bangkok	
203	Gimhae Airport	Korea	Busan	South Korea	
204	KLIA	Malaysia	Sepang	Selangor	
205	Baikal International Airport	Russia	Ulan-Ude	Buryat	
206	KLIA	Malaysia	Sepang	Selangor	
207	Bandung Airport	Indonesia	Bandung City	Karawang	
208	Brunei Airport	Tutong	Pagawan	Pagawan	
209	Narita Airport	Tokyo	Osaka	Tajiri	
210	Senai Airport	Johor	Johor Bahru	Kulai	



project (1) : Database- D:\z- ICT\project (1).accdb (Access 2007 - 2010)

File Home Create External Data Database Tools Help Fields Table Tell me what you want to do

View Paste Copy Cut Filter Ascending Descending Selection Advanced Refresh Save Spelling Find Replace Go To Select

Views Clipboard Sort & Filter Records Find

All Access ...

Search...

Tables

- AIRPORT
- CREW
- FLIGHT
- PASSENGER
- Paste Errors
- PAYMENT
- TICKET

Queries

- insert into airport
- insert into crew
- insert into flight
- insert into passenger

crew_id	flight_number	crew_name	crew_job	crew_age	Click to Add
20201	1101	Luqman Haqiem	Steward	30	
20202	1102	Harvetz	Steward	26	
20203	1103	Park Jimin	Steward	25	
20204	1104	Adeline	Stewardess	28	
20205	1105	Elsa Mandela	Stewardess	26	
20206	1106	Adeline	Stewardess	28	
20207	1107	Suga	Steward	28	
20208	1108	Jungkook	Steward	25	
20209	1109	Najib	Steward	35	
20210	1110	Solehah	Stewardess	21	

project (1) : Database- D:\z- ICT\project (1).accdb (Access 2007 - 2010)

File Home Create External Data Database Tools Help Fields Table Tell me what you want to do

View Paste Copy Cut Filter Ascending Descending Selection Advanced Refresh Save Spelling Find Replace Go To Select

Views Clipboard Sort & Filter Records Find

All Access ...

Search...

Tables

- AIRPORT
- CREW
- FLIGHT
- PASSENGER
- Paste Errors
- PAYMENT
- TICKET

Queries

- insert into airport
- insert into crew
- insert into flight
- insert into passenger

flight_number	airport_id	departure_time	passenger_count	airport_arrival	Click to Add
1101	201	0700	200	Paris	
1102	202	1400	300	Munich	
1103	203	0830	400	Seoul	
1104	204	1800	200	Bali	
1105	205	2245	300	London	
1106	206	1000	200	Bali	
1107	207	1615	300	Aceh	
1108	208	2330	400	Sarawak	
1109	209	1110	200	Beijing	
1110	210	2000	300	Sabah	

project (1) : Database- D:\z- ICT\project (1).accdb (Access 2007 - 20)

File Home Create External Data Database Tools Help Fields Table Tell me what you want to do

View Paste Cut Copy Filter Ascending Descending Selection Advanced Refresh Save Spelling Find Replace Go To Select

Views Clipboard Sort & Filter Records Find

All Access ...

Tables

- AIRPORT
- CREW
- FLIGHT
- PASSENGER
- PAYMENT**
- TICKET

Queries

- insert into airport
- insert into crew
- insert into flight
- insert into passenger
- insert into payment

passenger_id	passenger_name	passenger_country	passenger_address	Click to Add
101	Nasrul Nazrin	Malaysia	Pahang	
102	Amiruddin	Thailand	Bangkok	
103	Nurul Zawani	Korea	Busan	
104	Syahzanani	Malaysia	Negeri Sembilan	
105	Hasbullah	Russia	Buryat	
106	Arif Ahmad	Malaysia	Selangor	
107	Wafikah	Indonesia	Bandung	
108	Intan Alia	Brunei	Tutong	
109	Wan Aqil	Japanese	Tokyo	
110	Abdul Aziz	Malaysia	Johor	



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]



## 11. DDL

```
alter column airport_arrival X  
ALTER TABLE FLIGHT  
ALTER COLUMN airport_arrival varchar(50)
```

```
add column birth date X  
ALTER TABLE PAYMENT  
ADD COLUMN book_date date
```

```
alter column departure_hour X  
ALTER TABLE FLIGHT  
ALTER COLUMN departure_hour varchar(10)
```

```
alter column ticket_seat X  
ALTER TABLE TICKET  
ALTER COLUMN ticket_seat varchar(10)
```

```

create table airport
CREATE TABLE AIRPORT
(
  airport_id int NOT NULL PRIMARY KEY,
  airport_name varchar(50),
  airport_country varchar(50),
  airport_city varchar(50),
  airport_state varchar(50)
)

```

```

create table crew
CREATE TABLE CREW
(
  crew_id int NOT NULL PRIMARY KEY,
  flight_number int,
  crew_name varchar(50),
  crew_job varchar(50),
  crew_age int
)

```

```

create table flight
CREATE TABLE FLIGHT
(
  flight_number int NOT NULL PRIMARY KEY,
  airport_id int,
  departure_hour float,
  passenger_capacity int,
  airport_arrival float
)

```

Query Type

```

create table passenger
CREATE TABLE PASSENGER
(
  passenger_id int NOT NULL PRIMARY KEY,
  passenger_name varchar(50),
  passenger_country varchar(50),
  passenger_address varchar(100)
)

```

```
create table payment X
CREATE TABLE PAYMENT
(
  payment_id int NOT NULL PRIMARY KEY,
  passenger_name varchar(50),
  creditcard_number int,
  passenger_id int
)
```

```
create table ticket X
CREATE TABLE TICKET
(
  ticketNumber int NOT NULL PRIMARY KEY,
  passenger_id int,
  flight_number int,
  ticket_seat int,
  ticket_class varchar(50),
  ticket_price int
)
```

## 12. Application Screenshot FORM

The screenshot shows the 'PASSENGER FORM' interface. On the left, there is a sidebar with 'All Access ...' and a search bar. Below the search bar are categories: FLIGHT, PASSENGER, PAYMENT, and TICKET. Under 'Queries', there are options: 'insert into airport', 'insert into crew', 'insert into flight', and 'insert into passenger'. The main area contains the form title 'PASSENGER FORM' and several input fields:

PASSENGER ID	101
PASSENGER NAME	Nasrul Nazrin
PASSENGER COUNTRY	Malaysia
PASSENGER ADDRESS	Pahang

The screenshot shows the 'AIRPORT FORM' interface. The sidebar is similar to the previous form, but the 'AIRPORT' category is selected. The main area contains the form title 'AIRPORT FORM' and several input fields:

AIRPORT ID	201
AIRPORT NAME	KLIA
AIRPORT COUNTRY	Malaysia
AIRPORT CITY	Selangor
AIRPORT STATE	Selangor

The screenshot shows the 'PAYMENT FORM' interface. The sidebar is similar to the previous forms, but the 'PAYMENT' category is selected. The main area contains the form title 'PAYMENT FORM' and several input fields:

PAYMENT ID	401
PASSENGER NAME	Nasrul Nazrin
CREDITCARD NUMBER	55016
PASSENGER ID	101
BOOK DATE	22/2/2021

Views | Clipboard | Sort & Filter | Rec

All Access ...

Search...

FLIGHT  
PASSENGER  
PAYMENT  
TICKET

Queries

- insert into airport
- insert into crew
- insert into flight
- insert into passenger
- insert into payment
- insert into ticket

### TICKET FORM

TICKET NUMBER	6601
PASSENGER ID	101
FLIGHT NUMBER	1101
TICKET SEAT	2A
TICKET CLASS	Bussiness
TICKET PRICE	2100

Views | Clipboard | Sort & Filter

All Access ...

Search...

AIRPORT  
CREW  
FLIGHT  
PASSENGER  
PAYMENT  
TICKET

Queries

- insert into airport
- insert into crew
- insert into flight

### CREW FORM

CREW ID	20201
FLIGHT NUMBER	1101
CREW NAME	Luqman Haqiem
CREW JOB	Steward
CREW AGE	30

Views | Clipboard | Sort & Filter

All Access ...

Search...

AIRPORT  
CREW  
FLIGHT  
PASSENGER  
PAYMENT  
TICKET

Queries

- insert into airport
- insert into crew
- insert into flight

### FLIGHT FORM

FLIGHT NUMBER	1101
AIRPORT ID	201
DEPARTURE HOUR	0700
PASSENGER CAPACITY	200
AIRPORT ARRIVAL	Paris

## REPORT

project (1) (1) : Database- C:\Users\wanizul\Downloads\project (1) (1).accdb (Access 2007 - 2016 file format) - Access (Product Activation Failed) NURUL Z

File Home Create External Data Database Tools Help Tell me what you want to do

View Paste Cut Copy Format Painter Filter Ascending Descending Selection Advanced Refresh Save Spelling Find Replace Go To Select Text Formatting

All Access ... Search...

create table flight  
create table passen...  
create table payment  
create table ticket  
data crew age and j...  
data from Malaysia  
data of airport not L...  
data of flight depart...  
data of ticket class  
data passenger star...

Forms

AIRPORT FORM  
CREW FORM  
FLIGHT FORM  
Navigation Form  
PASSENGER FORM  
PAYMENT FORM  
TICKET FORM

**AIRPORT REPORT** Wednesday, 7 July, 2021 3:46:20 PM

AIRPORT ID	AIRPORT NAME	AIRPORT COUNTRY	AIRPORT CITY	AIRPORT STATE
201	KLIA	Malaysia	Sepang	Selangor
202	Suvarnabhumi Airport	Thailand	Samut Prakan	Bangkok
203	Gimhae Airport	Korea	Busan	South Korea
205	Baikal International Airport	Russia	Ulan-Ude	Buryat
204	KLIA	Malaysia	Sepang	Selangor
206	KLIA	Malaysia	Sepang	Selangor
207	Bandung Airport	Indonesia	Bandung City	Karawang
208	Brunel Airport	Tutong	Pagawan	Pagawan
209	Narita Airport	Tokyo	Osaka	Tajiri
210	Senai Airport	Johor	Johor Bahru	Kulai

10

Page 1 of 1

project (1) (1) : Database- C:\Users\wanizul\Downloads\project (1) (1).accdb (Access 2007 - 2016 file format) - Access (Product Activation Failed) NURUL Z

File Home Create External Data Database Tools Help Tell me what you want to do

View Paste Cut Copy Format Painter Filter Ascending Descending Selection Advanced Refresh Save Spelling Find Replace Go To Select Text Formatting

All Access ... Search...

create table flight  
create table passen...  
create table payment  
create table ticket  
data crew age and j...  
data from Malaysia  
data of airport not L...  
data of flight depart...  
data of ticket class  
data passenger star...

Forms

AIRPORT FORM  
CREW FORM  
FLIGHT FORM  
Navigation Form  
PASSENGER FORM  
PAYMENT FORM  
TICKET FORM

**CREW REPORT** Wednesday, 7 July, 2021 3:46:51 PM

CREW ID	FLIGHT NUMBER	CREW NAME	CREW JOB	CREW AGE
20201	1101	Luqman Haqiem	Steward	30
20202	1102	Harvetz	Steward	26
20203	1103	Park Jimin	Steward	25
20204	1104	Adeline	Stewardess	28
20205	1105	Elsa Mandela	Stewardess	26
20206	1106	Adeline	Stewardess	28
20207	1107	Suga	Steward	28
20208	1108	Jungkook	Steward	25
20209	1109	Najib	Steward	35
20210	1110	Solehah	Stewardess	21

10

Page 1 of 1

project (1) (1) : Database- C:\Users\wanizuf\Downloads\project (1) (1).accdb (Access 2007 - 2016 file format) - Access

File Home Create External Data Database Tools Help Tell me what you want to do

View Paste Cut Copy Format Painter Filter Sort & Filter Advanced Selection Refresh All Save Spelling Find Replace Go To Select Text Formatting

All Access ... Search...

create table flight  
create table passen...  
create table payment  
create table ticket  
data crew age and j...  
data from Malaysia  
data of airport not L...  
data of flight depart...  
data of ticket class  
data passenger star...

Forms

AIRPORT FORM  
CREW FORM  
FLIGHT FORM  
Navigation Form  
PASSENGER FORM  
PAYMENT FORM  
TICKET FORM

Reports

AIRPORT REPORT

**FLIGHT REPORT** Wednesday, 7 July, 2021 3:47:06 PM

FLIGHT NUMBER	AIRPORT ID	DEPARTURE HOUR	PASSENGER CAPACITY	AIRPORT ARRIVAL
1101	201	0700	200	Paris
1102	202	1400	300	Munich
1103	203	0830	400	Seoul
1104	204	1800	200	Bali
1105	205	2245	300	London
1106	206	1000	200	Bali
1107	207	1615	300	Acheh
1108	208	2330	400	Sarawak
1109	209	1110	200	Beijing
1110	210	2000	300	Sabah
10				

Page 1 of 1

project (1) (1) : Database- C:\Users\wanizuf\Downloads\project (1) (1).accdb (Access 2007 - 2016 file format) - Access (Product)

File Home Create External Data Database Tools Help Tell me what you want to do

View Paste Cut Copy Format Painter Filter Sort & Filter Advanced Selection Refresh All Save Spelling Find Replace Go To Select Text Formatting

All Access ... Search...

create table flight  
create table passen...  
create table payment  
create table ticket  
data crew age and j...  
data from Malaysia  
data of airport not L...  
data of flight depart...  
data of ticket class  
data passenger star...

Forms

AIRPORT FORM  
CREW FORM  
FLIGHT FORM  
Navigation Form  
PASSENGER FORM  
PAYMENT FORM  
TICKET FORM

Reports

AIRPORT REPORT

**PASSENGER REPORT** Wednesday, 7 July, 2021 3:47:26 PM

PASSENGER ID	PASSENGER NAME	PASSENGER COUNTRY	PASSENGER ADDRESS
101	Nasrul Nazrin	Malaysia	Pahang
102	Amiruddin	Thailand	Bangkok
103	Nurul Zawani	Korea	Busan
104	Syahzanani	Malaysia	Negeri Sembilan
105	Hasbullah	Russia	Buryat
106	Arif Ahmad	Malaysia	Selangor
107	Wafikah	Indonesia	Bandung
108	Intan Alia	Brunei	Tutong
109	Wan Aqil	Brunei	Tokyo
110	Abdul Aziz	Malaysia	Johor
10			

Page 1 of 1

project (1) (1) : Database- C:\Users\wanizul\Downloads\project (1) (1).accdb (Access 2007 - 2016 file format)

File Home Create External Data Database Tools Help Tell me what you want to do

View Paste Cut Copy Format Painter Filter Sort & Filter Selection - Advanced - Refresh All - Save Delete - Records Find Replace Go To - Select - Text Formatting

All Access ... Search...

create table flight  
create table passen...  
create table payment  
create table ticket  
data crew age and j...  
data from Malaysia  
data of airport not L...  
data of flight depart...  
data of ticket class  
data passenger star...

Forms

AIRPORT FORM  
CREW FORM  
FLIGHT FORM  
Navigation Form  
PASSENGER FORM  
PAYMENT FORM  
TICKET FORM

Reports

AIRPORT REPORT

**PAYMENT REPORT** Wednesday, 7 July, 2021 3:47:43 PM

PAYMENT ID	PASSENGER NAME	CREDIT CARD NUMBER	PASSENGER ID	BOOK DATE
401	Nasrul Nazrin	55016	101	22/2/2021
402	Amiruddin	55027	102	14/6/2021
403	Nurul Zawani	55038	103	23/9/2021
404	Syahzanani	55049	104	4/12/2021
405	Hasbullah	55050	105	30/4/2021
406	Arif Ahmad	55011	106	4/12/2021
407	Wafikah	55034	107	2/1/2021
408	Intan Alia	55013	108	27/3/2021
409	Wan Aqil	55076	109	12/4/2021
410	Abdul Aziz	55000	110	25/10/2021
10				

Page 1 of 1

project (1) (1) : Database- C:\Users\wanizul\Downloads\project (1) (1).accdb (Access 2007 - 2016 file format) - A

File Home Create External Data Database Tools Help Tell me what you want to do

View Paste Cut Copy Format Painter Filter Sort & Filter Selection - Advanced - Refresh All - Save Delete - Records Find Replace Go To - Select - Text Formatting

All Access ... Search...

create table flight  
create table passen...  
create table payment  
create table ticket  
data crew age and j...  
data from Malaysia  
data of airport not L...  
data of flight depart...  
data of ticket class  
data passenger star...

Forms

AIRPORT FORM  
CREW FORM  
FLIGHT FORM  
Navigation Form  
PASSENGER FORM  
PAYMENT FORM  
TICKET FORM

Reports

AIRPORT REPORT

**TICKET REPORT** Wednesday, 7 July, 2021 3:48:05 PM

TICKET NUMBER	PASSENGER ID	FLIGHT NUMBER	TICKET SEAT	TICKET CLASS	TICKET PRICE
6601	101	1101	2A	Bussiness	2100
6602	102	1102	15E	Economy	800
6603	103	1103	3C	Business	1400
6604	104	1104	25F	Economy	500
6605	105	1105	10B	Economy	700
6606	106	1106	25E	Economy	500
6607	107	1107	1B	Business	1456
6608	108	1108	18F	Economy	560
6609	109	1109	3D	Business	2500
6610	110	1110	23A	Economy	700
10					

Page 1 of 1



## NAVIGATION FORM

The screenshot shows the 'Navigation Form' interface with the 'TICKET FORM' tab selected. The left sidebar contains a list of database actions and a 'Forms' section with 'AIRPORT FORM' and 'CREW FORM'. The main content area displays the following fields:

TICKET NUMBER	6601
PASSENGER ID	101
FLIGHT NUMBER	1101
TICKET SEAT	2A
TICKET CLASS	Business
TICKET PRICE	2100

The screenshot shows the 'Navigation Form' interface with the 'PAYMENT FORM' tab selected. The left sidebar is identical to the previous screenshot. The main content area displays the following fields:

PAYMENT ID	401
PASSENGER NAME	Nasrul Nazrin
CREDITCARD NUMBER	55016
PASSENGER ID	101
BOOK DATE	22/2/2021

The screenshot shows the 'Navigation Form' interface with the 'PASSENGER FORM' tab selected. The left sidebar is identical to the previous screenshots. The main content area displays the following fields:

PASSENGER ID	101
PASSENGER NAME	Nasrul Nazrin
PASSENGER COUNTRY	Malaysia
PASSENGER ADDRESS	Pahang

Navigation Form

AIRPORT FORM CREW FORM **FLIGHT FORM** PASSENGER FORM PAYMENT FORM TICKET FORM [Add New]

### FLIGHT FORM

FLIGHT NUMBER	1101
AIRPORT ID	201
DEPARTURE HOUR	0700
PASSENGER CAPACITY	200
AIRPORT ARRIVAL	Paris

Navigation Form

AIRPORT FORM **CREW FORM** FLIGHT FORM PASSENGER FORM PAYMENT FORM TICKET FORM [Add New]

### CREW FORM

CREW ID	20201
FLIGHT NUMBER	1101
CREW NAME	Lugman Haqiem
CREW JOB	Steward
CREW AGE	30

Navigation Form

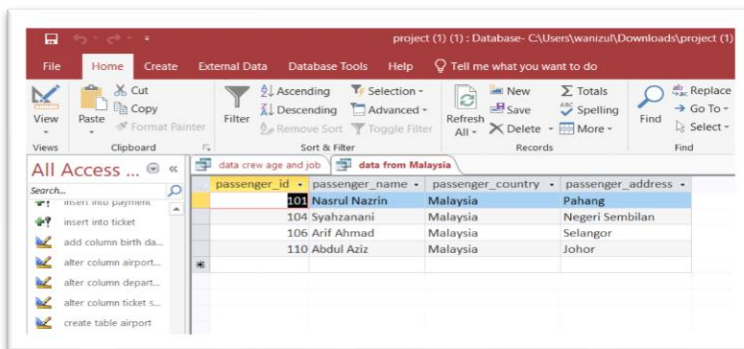
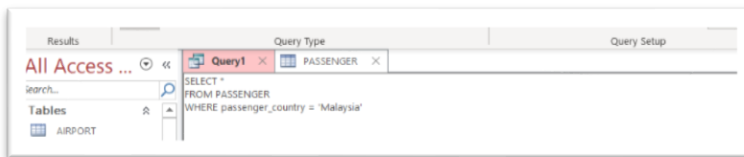
AIRPORT FORM CREW FORM FLIGHT FORM **PASSENGER FORM** PAYMENT FORM TICKET FORM [Add New]

### AIRPORT FORM

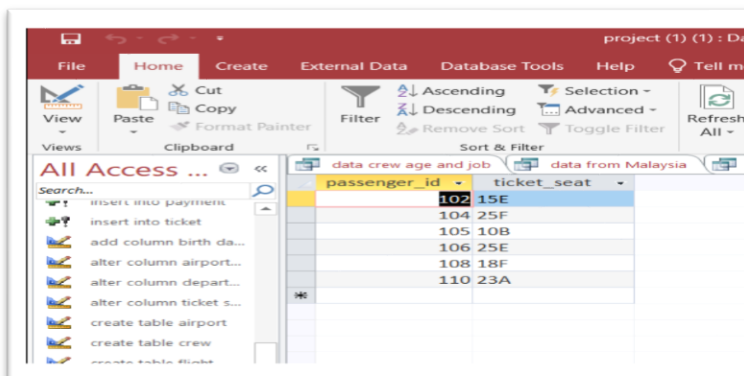
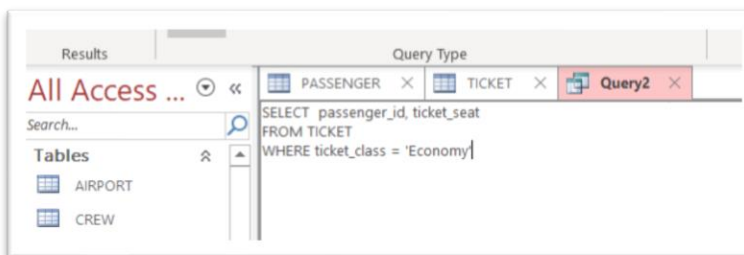
AIRPORT ID	201
AIRPORT NAME	KLIA
AIRPORT COUNTRY	Malaysia
AIRPORT CITY	Selangor
AIRPORT STATE	Selangor

### 13. SQL

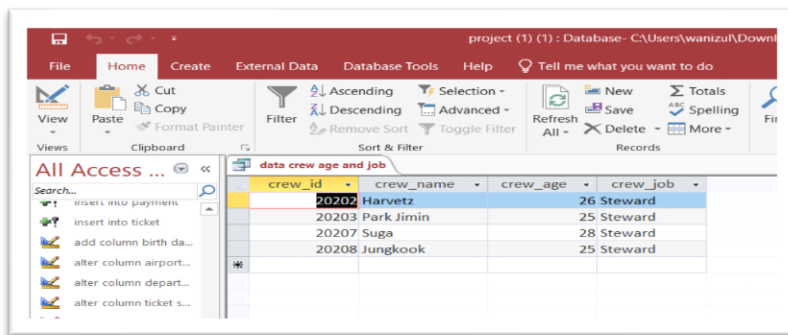
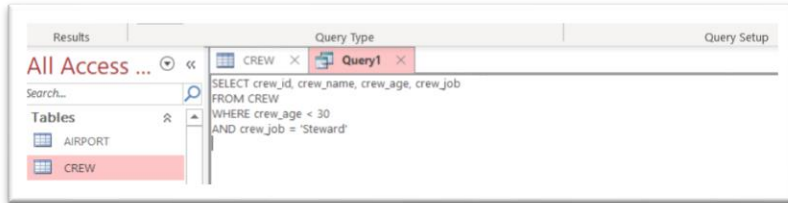
- i. Find the data of passengers from Malaysia.



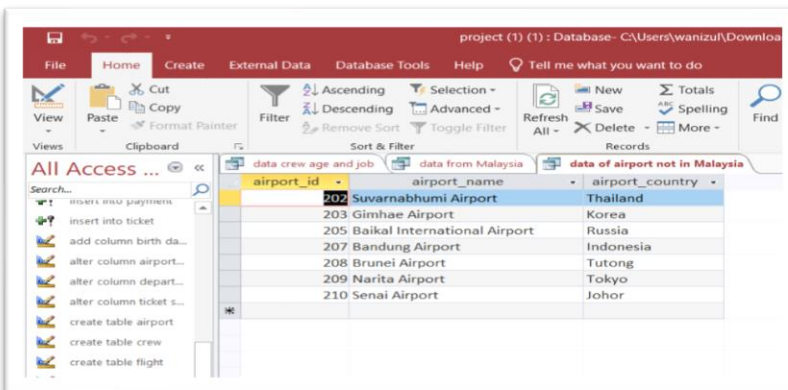
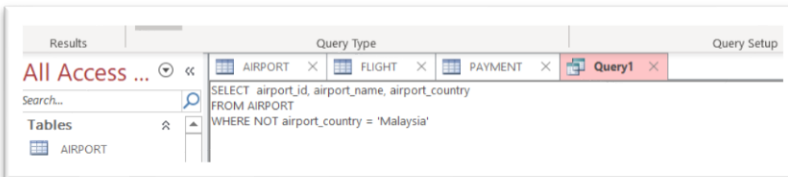
- ii. Find the data of passenger's ticket class.



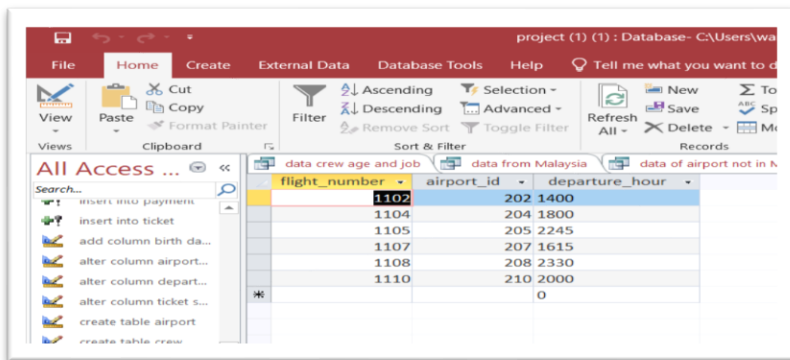
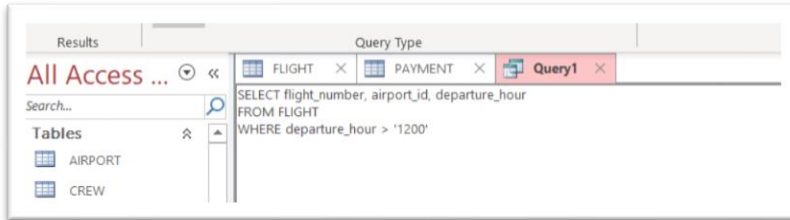
- iii. Find the data of crew who is below 30 and a steward.



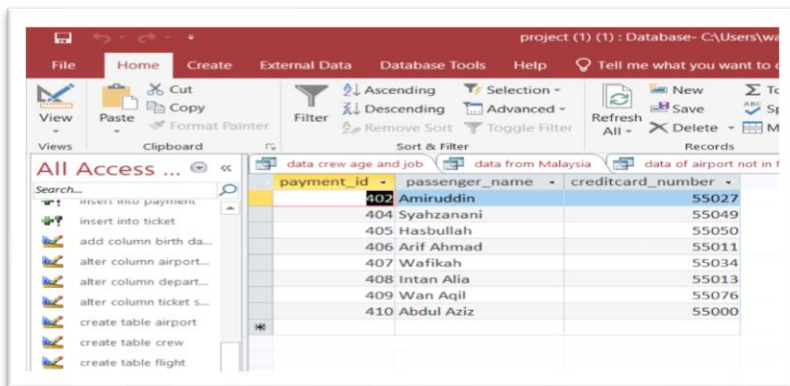
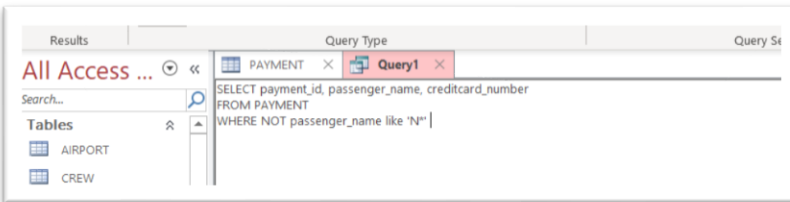
- iv. Find the data of airport that are not in Malaysia.



- v. Find the data of flight that depart above 1200 hours.



- vi. Find passengers name that starts other than 'N'.



## **14. Conclusion**

The conclusion of this project is that Transportation Management System is about an airplane agency. This system keeps all the data of hardware assets besides software of this organization. The proposed system will keep a track of passengers, crews, airports, tickets, flights and payment. This project has Graphic User Interface (GUI) based on software that will help in storing, updating and retrieving the data through various user-friendly menu-driven modules. The main objective of this project is to design and record the passengers flight schedule and rates, also managing reservation request and cancelation and the number of tickets sold. This system also helps to enable the passengers fly without hesitation. Besides, this system is to ease the handling the arrangement of company database. The admin of this system can search for particular facilities and easily to view its information. The system also will update the list of facilities in the database every time the booking process is completed and provides a preview of booking status to the user. The existing system is a manually maintained system. All the records are to be maintained for its details of each passengers, crews, airports, tickets, flights and payment process. All these details were entered and retrieve manually and because of this, there are some disadvantages like time consuming, updating process and also inaccuracy of the data. To avoid this matter, we have introduced or proposed a new system in computerized version of the existing system which provides an easy and quick way access over the data.