



AMERICAN INTERNATIONAL UNIVERSITY–BANGLADESH (AIUB)

FACULTY OF SCIENCE & TECHNOLOGY

INTRODUCTION TO DATABASE

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Section: E, Group: 07

REPORT ON

AIRLINE MANAGEMENT SYSTEM

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1. Introduction:

Software: Oracle Database 10g Express Edition.

Purpose:

1. The database can automate many of the tasks involved in managing an airline, such as reservations, ticketing, and inventory management. This can free employees to focus on other tasks, such as customer service.
2. It can be used to track the availability of seats, meals, and other amenities. This can help airlines to optimize their inventory and avoid overbooking flights.
3. It can help airlines to provide better customer service by providing employees with access to up-to-date information about flights, schedules, and reservations. This can help to reduce customer wait times and to resolve customer issues more quickly.
4. It can be used to protect sensitive data, such as passenger information and financial data. This can help to prevent fraud and to protect the privacy of customers.

Advantage:

1. Database can be used to schedule flights in a way that minimizes delays and cancellations. This can improve the efficiency of airline operations and make it easier for passengers to book flights.
2. It can help airlines to make better decisions about their operations, which can lead to increased revenue and decreased costs.
3. It can be used to provide customers with real-time information about their flights. This can help to reduce customer frustration and improve customer satisfaction.
4. It can be used to track passenger trends, identify areas where costs can be reduced, and develop new marketing strategies. This can help airlines to make better decisions about their operations.

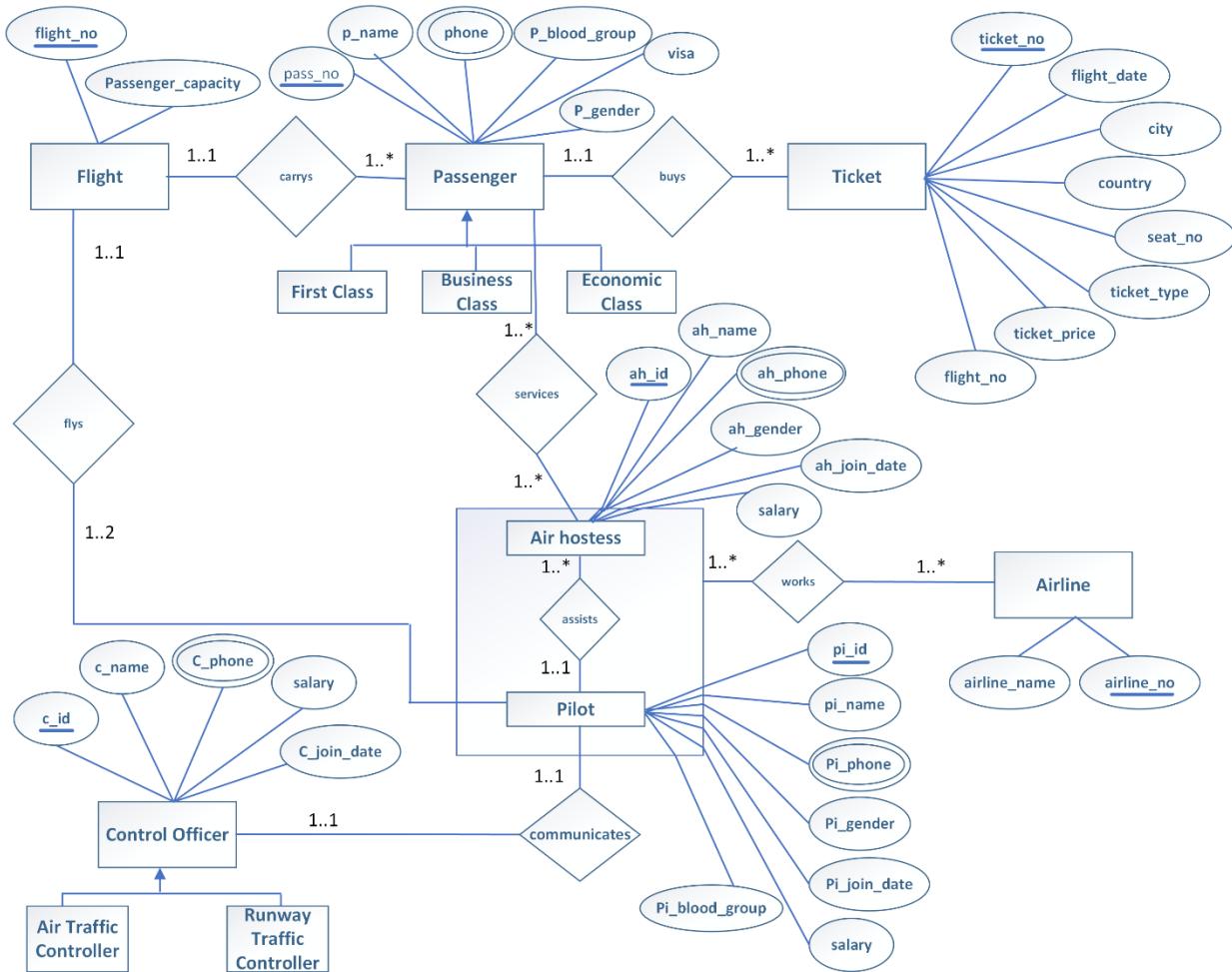
2. Case Study:

Airline Management System

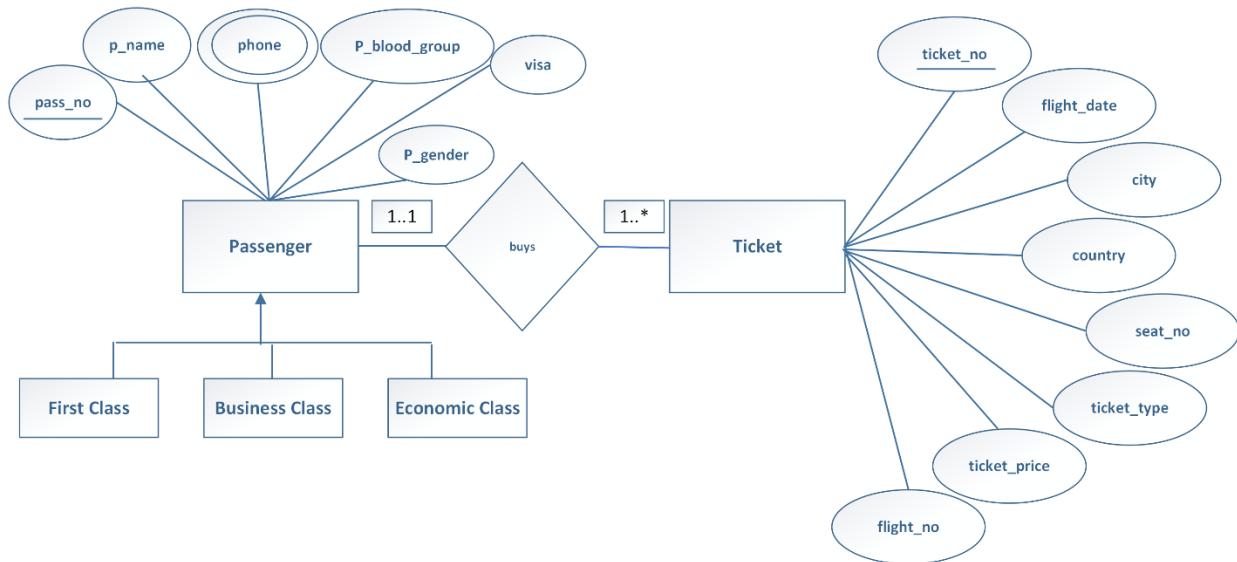
In an Airline management system, a passenger can buy tickets. Passengers are identified by passport number, passenger name, blood group, gender, visa, phone number and passenger are specialized by first class, business class and economics class. ticket has ticket no, flight date, city, country, seat number, ticket type, price.

Flights carry the passengers to their destination. Flight is identified by flight no, passenger capacity. The flight is flown by the pilot. Pilot has id, name, phone number, gender, salary, join date. Pilot can communicate with the control officer. The control officer has id, name, phone number, salary, join date and control officer is specialized by air traffic controller and runway traffic controller. One pilot can communicate with one control officer. Air hostess gives service to the passenger. Air hostess has id, name, join date, blood group. Multiple air hostess can give service to multiple passengers.

3.ER Diagram:



4. Normalization:



BUYS:

UNF:

Pass-no, p_name, p_phn-no, p_blood_group, p_gender, visa, ticket-no, flight date, seat-no, city, country, ticket-type, price, flight_no.

1NF:

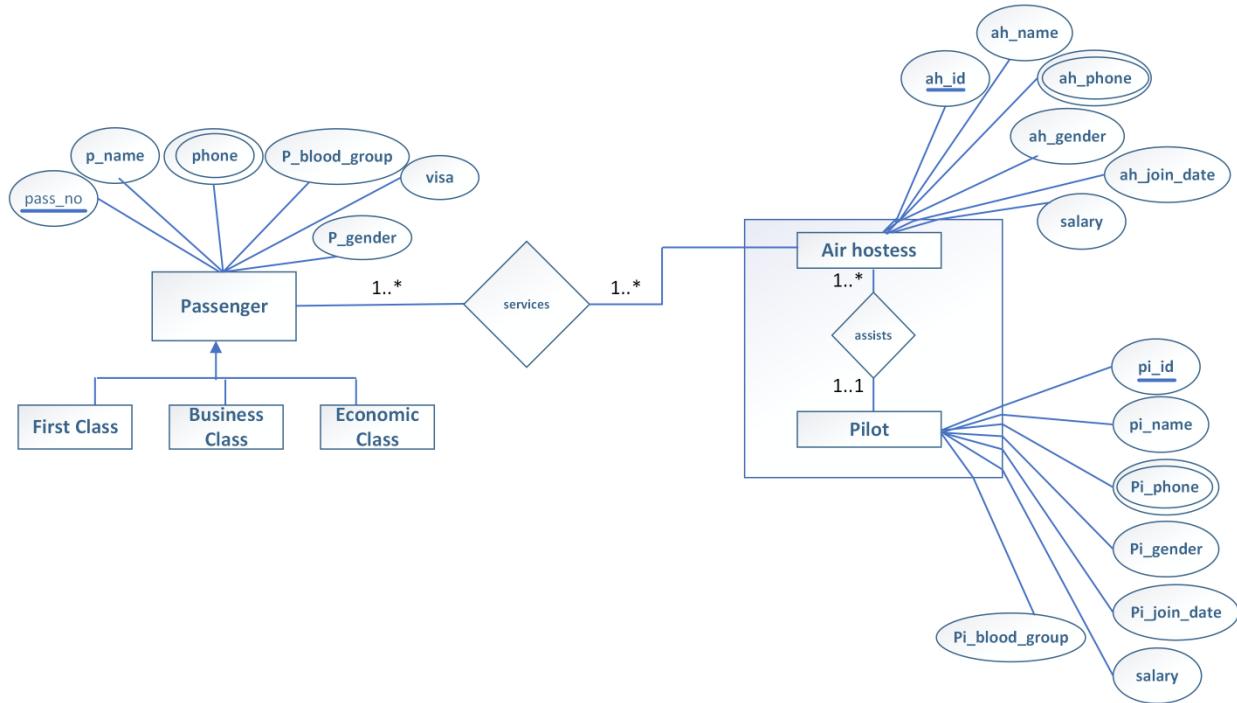
Pass-no, p_name, p_phn-no, p_blood_group, p_gender, visa, ticket-no, flight date, seat-no, city, country, ticket-type, price, flight_no.

2NF:

- (1) Pass-no, p_name, p_phn-no, p_blood_group, p_gender, visa.
- (2) Ticket-no (PK), flight date, seat-no, city, country, ticket-type, price, flight_no, Pass-no (FK).

3NF:

- (1) Pass-no, p_name, p_phn-no, p_blood_group, p_gender, visa.
- (2) Ticket-no (PK), flight date, seat-no, city, ticket-type, price, flight_no, Pass-no (FK).
- (3) City (PK), Country.



SERVICES:

UNF:

Pass-no, p_name, p_phn-no, p_blood_group, p_gender, visa, ah-id, ah_join-date, ah-name, ah_blood_group, ah_phone_no, ah_gender, salary.

1NF:

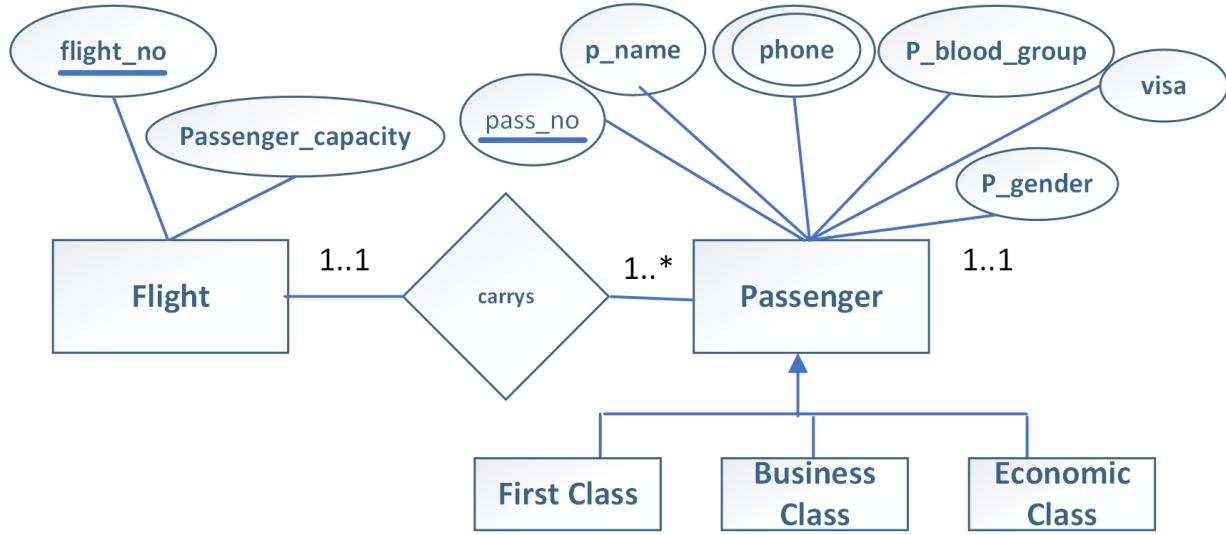
Pass-no, p_name, p_phn-no, p_blood_group, p_gender, visa, ah-id, ah_join-date, ah-name, ah_blood_group, ah_phone_no, ah_gender, salary.

2NF:

- (1) Pass-no, p_name, p_phn-no, p_blood_group, p_gender, visa.
- (2) ah-id, ah_join-date, ah-name, ah_blood_group, ah_gender, ah_phone_no, salary.
- (3) Pass-no(PK), ah-id(FK).

3NF:

- (1) Pass-no, p_name, p_phn-no, p_blood_group, p_gender, visa.
- (2) ah-id, ah_join-date, ah-name, ah_blood_group, ah_gender, ah_phone_no, salary.
- (3) Pass-no (PK), ah-id(FK).



CARRYS:

UNF:

Pass-no ,p_name, p_phn-no, p_blood_group, p_gender, visa, flight-no, passenger-capacity.

1NF:

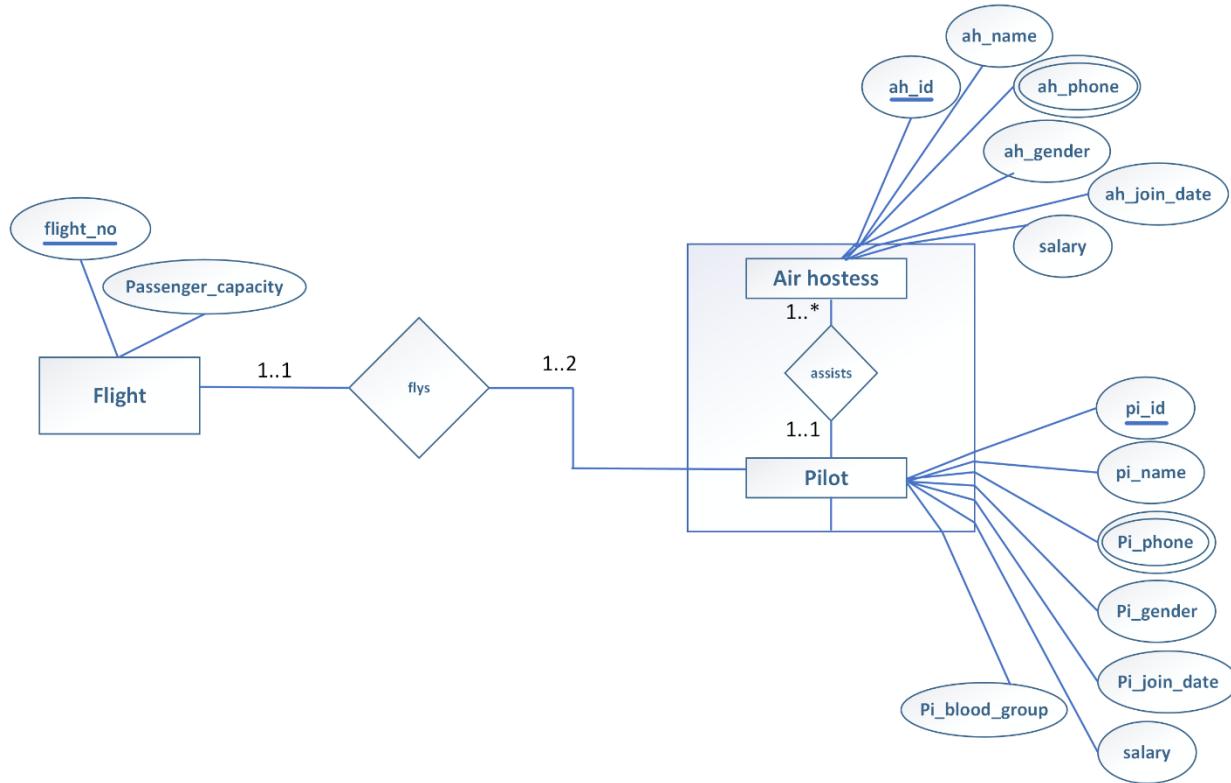
Pass-no ,p_name, p_phn-no, p_blood_group, p_gender, visa, flight-no, passenger-capacity.

2NF:

- (1) Pass-no(PK) ,p_name, p_phn-no, p_blood_group, p_gender, visa,flight_no(FK)
- (2) flight-no, passenger-capacity.

3NF:

- (1) Pass-no(PK) ,p_name, p_phn-no, p_blood_group, p_gender, visa,flight_no(FK)
- (2) flight-no, passenger-capacity.



FLYS:

UNF:

flight-no, passenger-capacity, pi-id, pi-name, pi-phone-no, pi-join-date, pi_gender,pi_blood_group, salary.

1NF:

flight-no, passenger-capacity, pi-id, pi-name, pi-phone-no, pi-join-date, pi_gender,pi_blood_group, salary.

2NF:

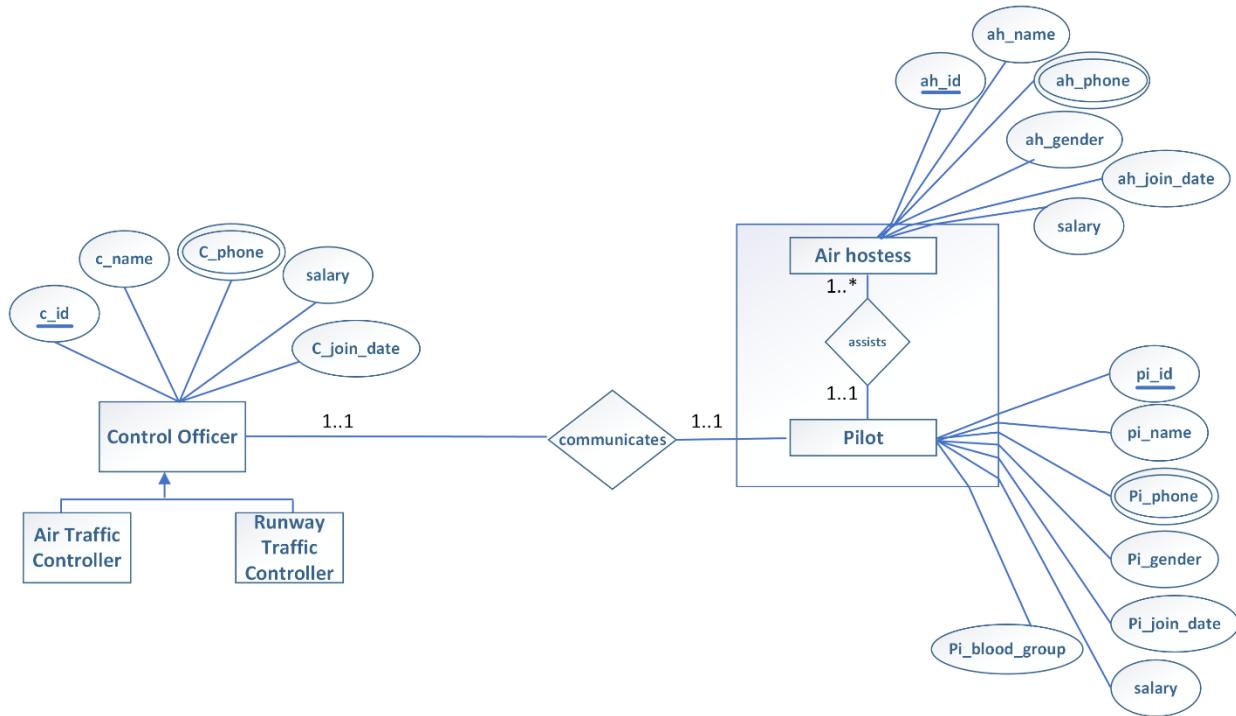
(1) flight-no , passenger-capacity,

(2) pi-id (PK), pi-name, pi-phone-no, pi-join-date, pi_gender,pi_blood_group,salary,flight_no(FK)

3NF:

(1) flight-no , passenger-capacity,

(2) pi-id (PK), pi-name, pi-phone-no, pi-join-date, pi_gender,pi_blood_group,salary, flight_no(FK)



COMMUNICATES:

UNF:

pi-id, pi-name, pi-phone-no, pi-join-date, pi_gender, pi_blood_group, salary, c-id, c-name, c-phn-no, c-joindate, salary.

1NF:

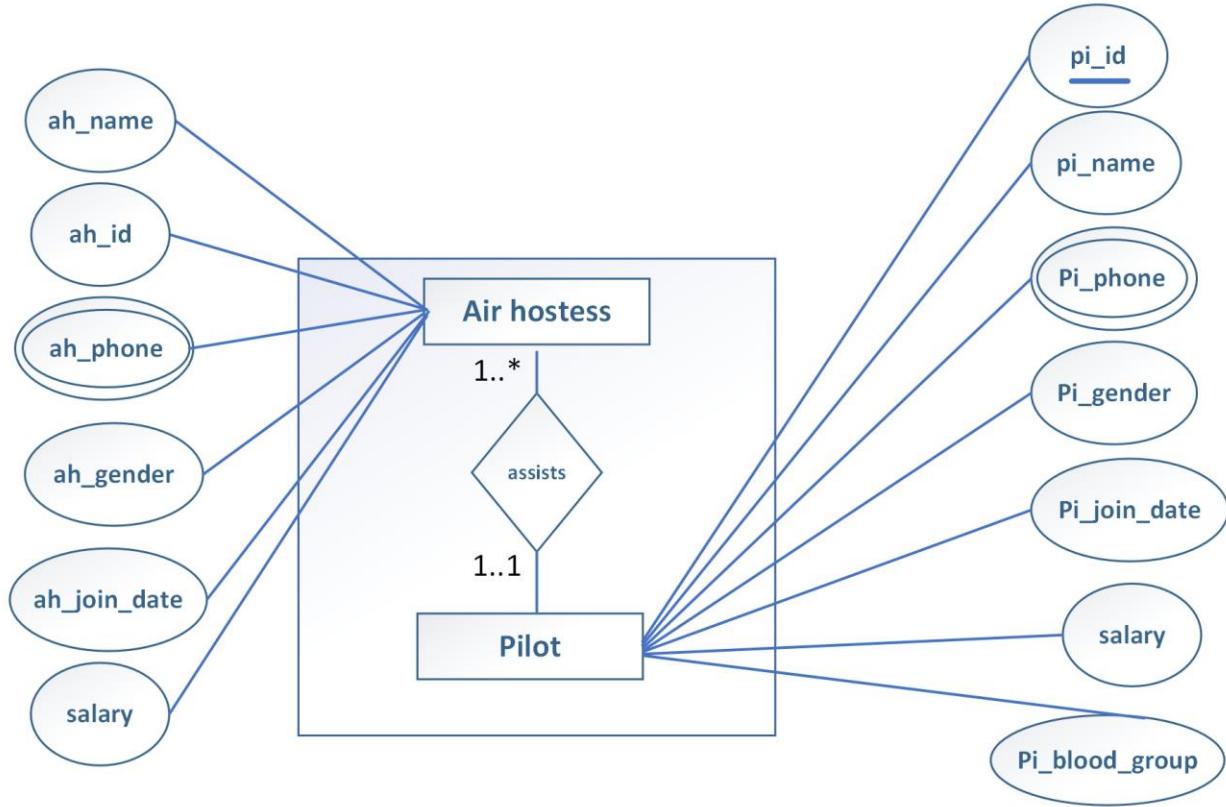
pi-id, pi-name, pi-phone-no, pi-join-date, pi_gender, pi_blood_group, salary, c-id, c-name, c-phn-no, c-joindate, salary.

2NF:

- (1) pi-id, pi-name, pi-phone-no, pi-join-date, pi_blood_group, pi_gender, salary.
- (2) c-id, c-name, c-phn-no, c-joindate, salary.
- (3) pi-id (PK), c-id (FK).

3NF:

- (1) pi-id, pi-name, pi-phone-no, pi-join-date, pi_gender, pi_blood_group, salary.
- (2) c-id, c-name, c-phn-no, c-joindate, salary.
- (3) pi-id (PK), c-id (FK).



ASSITS:

UNF:

pi-id, pi-name, pi-phone-no, pi-join-date, pi_gender, pi_blood_group, salary, ah-id, ah-join-date, ah-name, ah_gender, salary, ah-blood-group, ah_phone_no.

1NF:

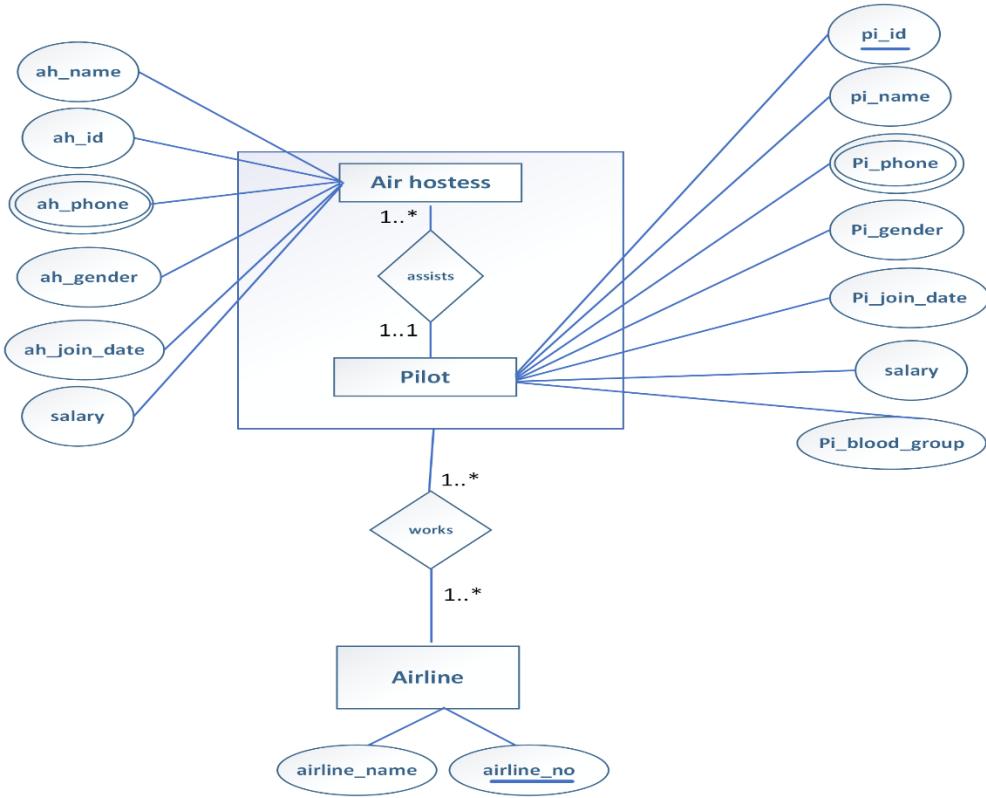
pi-id, pi-name, pi-phone-no, pi-join-date, pi_gender, pi_blood_group, salary, ah-id, ah-join-date, ah-name, ah_gender, salary, ah-blood-group, ah_phone_no.

2NF:

- (1) pi-id , pi-name, pi-phone-no, pi-join-date, pi_gender, salary, pi-blood-group.
- (2) ah-id(PK) , ah-name, ah-phone-no, ah-join-date, ah_gender, salary, ah-blood-group ,pi_id(FK).

3NF:

- (1) pi-id , pi-name, pi-phone-no, pi-join-date, pi_gender, salary, pi-blood-group.
- (2) ah-id(PK) , ah-name, ah-phone-no, ah-join-date, ah_gender, salary, ah-blood-group ,pi_id(FK).



WORKS:

UNF:

airline-no, airline-name, pi-id, pi-name, pi-phone-no, pi-join-date, pi_gender, pi_blood_group, salary, ah-id, ah_join-date, ah_phone_no, ah-name, salary, ah_blood_group, ah_gender.

1NF:

airline-no, airline-name, pi-id, pi-name, pi-phone-no, pi-join-date, pi_gender, pi_blood_group, salary, ah-id, ah_join-date, ah_phone_no, ah-name, salary, ah_blood_group, ah_gender.

2NF:

- (1) airline-no, airline-name.
- (2) pi-id(PK), pi-name, pi-phone-no, pi-join-date, pi_gender, pi_blood_group, salary, ah-id(FK), ah_join_date, ah_phone_no, ah_name, ah_blood_group, ah_gender, salary, airline_no(FK)

3NF:

- (1) airline-no, airline-name.
- (2) pi-id(PK), pi-name, pi-phone-no, pi-join-date, pi_gender, pi_blood_group, salary, ah-id(FK), ah_join_date, ah_phone_no, ah_name, ah_blood_group, ah_gender, salary, airline_no(FK)

5. Finalization:

- (1) Pass-no, p_name, p_phn-no, p_blood_group, p_gender, visa. (**PASSENGER**)
- (2) Ticket-no (**PK**), flight date, seat-no, city, ticket-type, price, flight_no, Pass-no (**FK**). (**BUY**)
- (3) City (**PK**), Country. (**LOCATION**)
- (4) ~~Pass no ,p_name, p_phn_no, p_blood_group, p_gender, visa.~~
- (5) ah-id, ah_join-date, ah-name, ah_blood_group, ah_gender, ah_phone_no, salary. (**AIR HOSTESS**)
- (6) Pass-no (**PK**), ah-id (**FK**) . (**SERVICE**)
- (7) Pass-no (**PK**), p_name, p_phn-no, p_blood_group, p_gender, visa, flight_no (**FK**). (**CARRY**)
- (8) flight-no, passenger-capacity. (**FLIGHT**)
- (9) ~~flight no , passenger capacity,~~
- (10) pi-id (**PK**), pi-name, pi-phone-no, pi-join-date, pi_gender, pi_blood_group, salary, flight_no (**FK**). (**FLY**)
- (11) pi-id, pi-name, pi-phone-no, pi-join-date, pi_gender, pi_blood_group, salary. (**PILOT**)
- (12) c-id, c-name, c-phn-no, c-joindate, salary. (**CONTROL OFFICER**)
- (13) pi-id (**PK**), c-id (**FK**). (**COMMUNICATE**)
- (14) ~~pi id , pi name, pi phone no, pi join date, pi gender, salary, pi blood group.~~
- (15) ah-id (**PK**), ah-name, ah-phone-no, ah-join-date, ah_gender, salary, ah-blood-group, pi_id (**FK**). (**ASSIST**)
- (16) airline-no, airline-name. (**AIR LINE**)
- (17) pi-id (**PK**), pi-name, pi-phone-no, pi-join-date, pi_gender, pi_blood_group, salary, ah-id (**FK**), ah_join_date, ah_phone_no, ah_name, ah_blood_group, ah_gender, salary, airline_no (**FK**). (**WORK**)

6. User Creation

The screenshot shows the Oracle Database Express Edition interface. The title bar says "ORACLE Database Express Edition". The top menu has icons for Home, Logout, and Help. The main menu bar shows "User SYSTEM" and "Home > SQL > SQL Commands". Below the menu is a toolbar with "Autocommit" checked, "Display 10", "Save", and "Run". The SQL command input field contains:
create user airlinemangement identified by bdbiman

Results Explain Describe Saved SQL History

User created.

0.08 seconds

Figure (6.1)

Permission:

The screenshot shows the Oracle Database Express Edition interface. The title bar says "ORACLE Database Express Edition". The top menu has icons for Home, Logout, and Help. The main menu bar shows "User SYSTEM" and "Home > SQL > SQL Commands". Below the menu is a toolbar with "Autocommit" checked, "Display 10", "Save", and "Run". The SQL command input field contains:
create user airlinemangement identified by bdbiman
grant connect, resource to airlinemangement

Results Explain Describe Saved SQL History

Statement processed.

0.02 seconds

Figure (6.2)

6. Table Creation:

Passenger table Creation

ORACLE Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit Display 10

```
create table passenger (p_name varchar2(10), pass_no number(10) primary key, p_phn_no number(11),
p_blood_group varchar(3), p_gender varchar(6), visa varchar(8))

describe passenger
```

Object Type TABLE Object PASSENGER

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PASSENGER	P_NAME	Varchar2	10	-	-	-	✓	-	-
	PASS_NO	Number	-	10	0	1	-	-	-
	P_PHN_NO	Number	-	11	0	-	✓	-	-
	P_BLOOD_GROUP	Varchar2	3	-	-	-	✓	-	-
	P_GENDER	Varchar2	6	-	-	-	✓	-	-
	VISA	Varchar2	8	-	-	-	✓	-	-

1 - 6

Figure (6.3)

Buy table Creation

ORACLE Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

```

 Autocommit Display 10 ▾
    Save Run
create table buy (ticket_no number (10) primary key, flight_date date, seat_no number (5),
ticket_type varchar2(20), price number (6,2), flight_no number (5), pass_no varchar2(10))

alter table buy add constraint pass foreign key (pass_no) references passenger (pass_no)

describe buy

```

Object Type **TABLE** Object **BUY**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
BUY	TICKET_NO	Number	-	10	0	1	-	-	-
	FLIGHT_DATE	Date	7	-	-	-	✓	-	-
	SEAT_NO	Number	-	5	0	-	✓	-	-
	TICKET_TYPE	Varchar2	20	-	-	-	✓	-	-
	PRICE	Number	-	6	2	-	✓	-	-
	FLIGHT_NO	Number	-	5	0	-	✓	-	-
	PASS_NO	Varchar2	10	-	-	-	✓	-	-

1 - 7

Figure (6.4)

Location table Creation

ORACLE Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit Display 10 ▾

```
create table location (city varchar (10) primary key, country varchar (10))

describe location
```

Object Type TABLE Object LOCATION

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
LOCATION	CITY	Varchar2	10	-	-	1	-	-	
	COUNTRY	Varchar2	10	-	-	-	✓	-	
									1 - 2

Figure (6.5)

Airhostess table Creation

ORACLE Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit Display 10 ▾

Save Run

```
create table airhostess (ah_name varchar2(10), ah_id number(10) primary key, ah_join_date date,
ah_blood_group varchar(3), ah_gender varchar(6), ah_phn_no number(11), salary number(7,2))

describe airhostess
```

Object Type TABLE Object AIRHOSTESS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AIRHOSTESS	AH_NAME	Varchar2	10	-	-	-	✓	-	-
	AH_ID	Number	-	10	0	1	-	-	-
	AH_JOIN_DATE	Date	7	-	-	-	✓	-	-
	AH_BLOOD_GROUP	Varchar2	3	-	-	-	✓	-	-
	AH_GENDER	Varchar2	6	-	-	-	✓	-	-
	AH_PHN_NO	Number	-	11	0	-	✓	-	-
	SALARY	Number	-	7	2	-	✓	-	-
									1 - 7

Figure (6.6)

Service table Creation

ORACLE® Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

```
 Autocommit Display 10
create table service (pass_no varchar2(10) primary key, ah_id number(5))
alter table service add constraint ah foreign key (ah_id) references airhostess (ah_id)
describe service
```

Object Type TABLE Object SERVICE										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
SERVICE	PASS_NO	Varchar2	10	-	-	1	-	-	-	
	AH_ID	Number	-	5	0	-	✓	-	-	
1 - 2										

Figure (6.7)

Carry table Creation

ORACLE® Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

```
 Autocommit Display 10  
create table carry (pass_no varchar2(10) primary key, p_name varchar2(10), p_phn_no number(11), p_blood_group varchar(3), p_gender varchar(6), visa varchar(10), flight_no number(5))
describe carry
```

Object Type TABLE Object CARRY										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
CARRY	PASS_NO	Varchar2	10	-	-	1	-	-	-	
	P_NAME	Varchar2	10	-	-	-	✓	-	-	
	P_PHN_NO	Number	-	11	0	-	✓	-	-	
	P_BLOOD_GROUP	Varchar2	3	-	-	-	✓	-	-	
	P_GENDER	Varchar2	6	-	-	-	✓	-	-	
	VISA	Varchar2	10	-	-	-	✓	-	-	
	FLIGHT_NO	Number	-	5	0	-	✓	-	-	
1 - 7										

Figure (6.8)

Flight table Creation

ORACLE Database Express Edition

User AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit Display 10

```
create table flight (flight_no number(5) primary key, passenger_capacity number(10))

alter table carry add constraint flight foreign key (flight_no) references flight (flight_no)

describe flight
```

Object Type TABLE Object FLIGHT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
FLIGHT	FLIGHT_NO	Number	-	5	0	1	-	-	-
	PASSENGER_CAPACITY	Number	-	10	0	-	✓	-	-

1 - 2

Figure (6.9)

Fly table Creation

ORACLE Database Express Edition

User AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit Display 10

```
create table fly (pi_id number(10) primary key, pi_name varchar2(30), pi_phn_no number(11),
pi_join_date date, pi_gender varchar(6), pi_blood_group varchar(3), salary number(8,2), flight_no
number(5))

alter table fly add constraint glight foreign key (flight_no) references flight (flight_no)

describe fly
```

Object Type TABLE Object FLY

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
FLY	PI_ID	Number	-	10	0	1	-	-	-
	PI_NAME	Varchar2	30	-	-	-	✓	-	-
	PI_PHN_NO	Number	-	11	0	-	✓	-	-
	PI_JOIN_DATE	Date	7	-	-	-	✓	-	-
	PI_GENDER	Varchar2	6	-	-	-	✓	-	-
	PI_BLOOD_GROUP	Varchar2	3	-	-	-	✓	-	-
	SALARY	Number	-	8	2	-	✓	-	-
	FLIGHT_NO	Number	-	5	0	-	✓	-	-

1 - 8

Figure (6.10)

Pilot table Creation

ORACLE Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit

```
create table pilot (pi_id number(10) primary key, pi_name varchar2(30), pi_phn_no number(11),
pi_join_date date, pi_gender varchar(6), pi_blood_group varchar(3), salary number(8,2))

describe pilot
```

Object Type TABLE Object PILOT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PILOT	PI_ID	Number	-	10	0	1	-	-	-
	PI_NAME	Varchar2	30	-	-	-	✓	-	-
	PI_PHN_NO	Number	-	11	0	-	✓	-	-
	PI_JOIN_DATE	Date	7	-	-	-	✓	-	-
	PI_GENDER	Varchar2	6	-	-	-	✓	-	-
	PI_BLOOD_GROUP	Varchar2	3	-	-	-	✓	-	-
	SALARY	Number	-	8	2	-	✓	-	-

1 - 7

Figure (6.11)

Control Officer table Creation

ORACLE Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit

```
create table controlofficer(c_id number(10) primary key, c_name varchar2(10), c_phn_no number(11),
c_join_date date, salary number(7,2))

describe controlofficer
```

Object Type TABLE Object CONTROLOFFICER

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CONTROLOFFICER	C_ID	Number	-	10	0	1	-	-	-
	C_NAME	Varchar2	10	-	-	-	✓	-	-
	C_PHN_NO	Number	-	11	0	-	✓	-	-
	C_JOIN_DATE	Date	7	-	-	-	✓	-	-
	SALARY	Number	-	7	2	-	✓	-	-

1 - 5

Figure (6.12)

Communicate table Creation

ORACLE® Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit Display 10 ▾

```
create table communicate (pi_id number(10) primary key, c_id number(10))

describe communicate
```

Object Type TABLE Object COMMUNICATE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
COMMUNICATE	PI_ID	Number	-	10	0	1	-	-	-
	C_ID	Number	-	10	0	-	✓	-	-

1 - 2

Figure (6.13)

Assist table Creation

ORACLE® Database Express Edition

Home Logout Help

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit Display 10 ▾

Save Run

```
create table assist(ah_name varchar2(30), ah_id number(10) primary key, ah_join_date date,
ah_blood_group varchar(3), ah_gender varchar(6), ah_phn_no number(11), salary number(7,2),pi_id
number(10))

alter table assist add constraint pi foreign key (pi_id) references pilot (pi_id)

describe assist
```

Object Type TABLE Object ASSIST

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ASSIST	AH_NAME	Varchar2	30	-	-	-	✓	-	-
	AH_ID	Number	-	10	0	1	-	-	-
	AH_JOIN_DATE	Date	7	-	-	-	✓	-	-
	AH_BLOOD_GROUP	Varchar2	3	-	-	-	✓	-	-
	AH_GENDER	Varchar2	6	-	-	-	✓	-	-
	AH_PHN_NO	Number	-	11	0	-	✓	-	-
	SALARY	Number	-	7	2	-	✓	-	-
	PI_ID	Number	-	10	0	-	✓	-	-

1 - 8

Figure (6.14)

Airline table Creation

ORACLE® Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit Display 10 ▾

```
create table airline (airline_no number(10) primary key, airline_name varchar(10))
```

describe airline

Object Type TABLE Object AIRLINE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AIRLINE	AIRLINE_NO	Number	-	10	0	1	-	-	-
	AIRLINE_NAME	Varchar2	10	-	-	-	✓	-	-

1 - 2

Figure (6.15)

Work table Creation

ORACLE Database Express Edition

Home Log off

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

```

 Autocommit Display 10 
create table work(pi_id number(10) primary key, pi_name varchar2(30), pi_phn_no number(15),
pi_join_date date, pi_gender varchar(6), pi_blood_group varchar(6), salary number(6,2), ah_name
varchar2(30), ah_id number(10), ah_join_date date, ah_blood_group varchar(6), ah_gender
varchar(6), ah_phn_no varchar(15),airline_no number(10))

alter table work add constraint al foreign key (airline_no) references airline (airline_no)

alter table work add constraint an foreign key (ah_id) references airhostess (ah_id)

describe work

```

Object Type TABLE Object WORK

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
WORK	PI_ID	Number	-	10	0	1	-	-	-
	PI_NAME	Varchar2	30	-	-	-	✓	-	-
	PI_PHN_NO	Number	-	15	0	-	✓	-	-
	PI_JOIN_DATE	Date	7	-	-	-	✓	-	-
	PI_GENDER	Varchar2	6	-	-	-	✓	-	-
	PI_BLOOD_GROUP	Varchar2	6	-	-	-	✓	-	-
	SALARY	Number	-	6	2	-	✓	-	-
	AH_NAME	Varchar2	30	-	-	-	✓	-	-
	AH_ID	Number	-	10	0	-	✓	-	-
	AH_JOIN_DATE	Date	7	-	-	-	✓	-	-
	AH_BLOOD_GROUP	Varchar2	6	-	-	-	✓	-	-
	AH_GENDER	Varchar2	6	-	-	-	✓	-	-
	AH_PHN_NO	Varchar2	15	-	-	-	✓	-	-
	AIRLINE_NO	Number	-	10	0	-	✓	-	-

1 - 14

Figure (6.16)

7. Value insertion

Passenger table insertion & result

ORACLE Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit Save Run

```
insert into passenger (p_name, pass_no, p_phn_no, p_blood_group, p_gender, visa) values ('GOPAL', 'AZ267508', '01300867918', 'A+', 'MALE', 'VL0086')

insert into passenger (p_name, pass_no, p_phn_no, p_blood_group, p_gender, visa) values ('HABLU', 'AY690348', '01700887910', 'AB+', 'MALE', 'VL9069')

insert into passenger (p_name, pass_no, p_phn_no, p_blood_group, p_gender) values ('JOGESH', 'AX006890', '01612014281', 'O+', 'MALE')

insert into passenger (p_name, pass_no, p_phn_no, p_blood_group, p_gender, visa) values ('NUT', 'AW396805', '01590048410', 'A-', 'MALE', 'VL3945')

select* from passenger
```

P_NAME	PASS_NO	P_PHN_NO	P_BLOOD_GROUP	P_GENDER	VISA
GOPAL	AZ267508	1300867918	A+	MALE	VL0086
HABLU	AY690348	1700887910	AB+	MALE	VL9069
JOGESH	AX006890	1612014281	O+	MALE	-
NUT	AW396805	1590048410	A-	MALE	VL3945

Figure (7.1)

Buy table insertion & result

ORACLE Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

```
Autocommit Display 10 Save Run
insert into buy (ticket_no, flight_date, seat_no, ticket_type, price, flight_no, pass_no) values
(10068, '11-JAN-23', 11, 'BUSINESS', '2500.00', 109, 'AZ267508')

insert into buy (ticket_no, flight_date, seat_no, ticket_type, price, flight_no, pass_no) values
('10069', '15-JUL-23', '12', 'ECONOMI', '5000.00', '110','AY690348')

insert into buy (ticket_no, flight_date, seat_no, ticket_type, price, flight_no, pass_no) values
('10070', '16-OCT-24', '22', 'FIRST', '8000.00', '115','AX006890')

insert into buy (ticket_no, flight_date, seat_no, ticket_type, price, flight_no, pass_no) values
('10071', '18-SEP-23', '18', 'BUSINESS', '2500.00', '116','AW396805')

select* from buy
```

TICKET_NO	FLIGHT_DATE	SEAT_NO	TICKET_TYPE	PRICE	FLIGHT_NO	PASS_NO
10068	11-JAN-23	11	BUSINESS	2500	109	AZ267508
10069	15-JUL-23	12	ECONOMI	5000	110	AY690348
10070	16-OCT-24	22	FIRST	8000	115	AX006890
10071	18-SEP-23	18	BUSINESS	2500	116	AW396805

Figure (7.2)

Location table insertion & result

ORACLE® Database Express Edition

User: AIRLINEMANAGEMENT
Home > SQL > SQL Commands

Autocommit Display 10 ▾

```
insert into location (city, country) values ('ALSTON', 'UK')
insert into location (city, country) values ('DHAKA', 'BD')
insert into location (city, country) values ('METIS', 'CHANADA')
insert into location (city, country) values ('KUIUMBIA', 'RUSSIA')
select* from location
```

CITY	COUNTRY
ALSTON	UK
DHAKA	BD
METIS	CHANADA
KUIUMBIA	RUSSIA

Figure (7.3)

Airhostess table insertion & result

ORACLE Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

```
insert into airhostess (ah_name, ah_id, ah_join_date, ah_blood_group, ah_gender, ah_phn_no, salary) values ('SADIA', '1009', '11-JAN-21', 'AB+', 'FEMALE', '01315239817', '90000.00')

insert into airhostess (ah_name, ah_id, ah_join_date, ah_blood_group, ah_gender, ah_phn_no, salary) values ('PAPIA', '1010', '12-FEB-21', 'A+', 'FEMALE', '01303249949', '8000')

insert into airhostess (ah_name, ah_id, ah_join_date, ah_blood_group, ah_gender, ah_phn_no, salary) values ('FARIA', '1014', '12-JUN-22', 'O+', 'FEMALE', '01318175642', '7000')

insert into airhostess (ah_name, ah_id, ah_join_date, ah_blood_group, ah_gender, ah_phn_no, salary) values ('BRISTY', '1015', '17-JUL-23', 'B+', 'FEMALE', '01398574284', '6000')

select* from airhostess
```

AH_NAME	AH_ID	AH_JOIN_DATE	AH_BLOOD_GROUP	AH_GENDER	AH_PHN_NO	SALARY
SADIA	1009	11-JAN-21	AB+	FEMALE	1315239817	90000
PAPIA	1010	12-FEB-21	A+	FEMALE	1303249949	8000
FARIA	1014	12-JUN-22	O+	FEMALE	1318175642	7000
BRISTY	1015	17-JUL-23	B+	FEMALE	1398574284	6000

Figure (7.4)

Service table insertion & result

ORACLE Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

```

 Autocommit Display 10 ▾
insert into service (pass_no, ah_id) values ('AZ267508', '1009')
insert into service (pass_no, ah_id) values ('AY690348', '1010')
insert into service (pass_no, ah_id) values ('AX006890', '1014')
insert into service (pass_no, ah_id) values ('AW396805', '1015')
select* from service

```

PASS_NO	AH_ID
AZ267508	1009
AY690348	1010
AX006890	1014
AW396805	1015

Figure (7.5)

Carry table insertion & result

ORACLE Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

```

 Autocommit Display 10 ▾
insert into carry values('GOPAL','AZ267508',01300867918,'A+','MALE','VL0086',109)
insert into carry values('HABLU','AY690348',01700887910,'AB+','MALE','VL9069',110)
insert into carry(Pass_no,P_name,P_phn_no,P_blood_group,P_gender,Flight_no)
values('JOGESH','AX006890',01612014281,'O+','MALE',114)
insert into carry values('NUT','AW396805',01590048410,'A-','MALE','VL3945',115)
select * from carry

```

PASS_NO	P_NAME	P_PHN_NO	P_BLOOD_GROUP	P_GENDER	VISA	FLIGHT_NO
GOPAL	AZ267508	1300867918	A+	MALE	VL0086	109
HABLU	AY690348	1700887910	AB+	MALE	VL9069	110
JOGESH	AX006890	1612014281	O+	MALE	-	114
NUT	AW396805	1590048410	A-	MALE	VL3945	115

Figure (7.6)

Flight table insertion & result

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

```
 Autocommit Display 10 ▾
insert into flight (flight_no, passenger_capacity) values ('109', '250')
insert into flight (flight_no, passenger_capacity) values ('110', '300')
insert into flight (flight_no, passenger_capacity) values ('114', '350')
insert into flight (flight_no, passenger_capacity) values ('115', '400')
select* from flight
```

FLIGHT_NO	PASSENGER_CAPACITY
109	250
110	300
114	350
115	400

Figure (7.7)

Fly table insertion & result

ORACLE® Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

```
 Autocommit Display 10 ▾
Save Run
insert into fly (pi_id, pi_name, pi_phn_no, pi_join_date, pi_gender, pi_blood_group, salary, flight_no) values ('2224', 'KOPIL', '01612114181', '11-JAN-20', 'MALE', 'A-', '5000', '109')
insert into fly (pi_id, pi_name, pi_phn_no, pi_join_date, pi_gender, pi_blood_group, salary, flight_no) values ('2227', 'SUMAYA', '01900885611', '15-JUL-20', 'FEMALE', 'AB+', '6000', '110')
insert into fly (pi_id, pi_name, pi_phn_no, pi_join_date, pi_gender, pi_blood_group, salary, flight_no) values ('2229', 'BISWAS', '01914488255', '15-JUN-21', 'MALE', 'O+', '7000', '114')
insert into fly (pi_id, pi_name, pi_phn_no, pi_join_date, pi_gender, pi_blood_group, salary, flight_no) values ('2226', 'YEA', '01315323722', '15-JUL-22', 'MALE', 'A+', '8000', '115')
select* from fly
```

PI_ID	PI_NAME	PI_PHN_NO	PI_JOIN_DATE	PI_GENDER	PI_BLOOD_GROUP	SALARY	FLIGHT_NO
2224	KOPIL	1612114181	11-JAN-20	MALE	A-	5000	109
2227	SUMAYA	1900885611	15-JUL-20	FEMALE	AB+	6000	110
2229	BISWAS	1914488255	15-JUN-21	MALE	O+	7000	114
2226	YEA	1315323722	15-JUL-22	MALE	A+	8000	115

Figure (7.8)

Pilot table insertion & result

ORACLE® Database Express Edition

Home Logout Help

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

```
Autocommit Display 10 Save Run
insert into pilot (pi_id, pi_name, pi_phn_no, pi_join_date, pi_gender, pi_blood_group, salary)
values ('2224', 'KOPIL', '01612114181', '11-JAN-20', 'MALE', 'A-', '850000.00')

insert into pilot (pi_id, pi_name, pi_phn_no, pi_join_date, pi_gender, pi_blood_group, salary)
values ('2227', 'SUMAYA', '01900885611', '15-JUL-20', 'FEMALE', 'AB+', '800000.00')

insert into pilot (pi_id, pi_name, pi_phn_no, pi_join_date, pi_gender, pi_blood_group, salary)
values ('2229', 'BISWAS', '01914488255', '15-JUN-21', 'MALE', 'O+', '650000.00')

insert into pilot (pi_id, pi_name, pi_phn_no, pi_join_date, pi_gender, pi_blood_group, salary)
values ('2226', 'YEA', '01315323722', '15-JUL-22', 'MALE', 'A+', '550000.00')

select* from pilot
```

PI_ID	PI_NAME	PI_PHN_NO	PI_JOIN_DATE	PI_GENDER	PI_BLOOD_GROUP	SALARY
2224	KOPIL	1612114181	11-JAN-20	MALE	A-	850000
2227	SUMAYA	1900885611	15-JUL-20	FEMALE	AB+	800000
2229	BISWAS	1914488255	15-JUN-21	MALE	O+	650000
2226	YEA	1315323722	15-JUL-22	MALE	A+	550000

Figure (7.9)

Control Officer table insertion & result

ORACLE Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

```
 Autocommit Display 10 ▾ Save Run
insert into controlofficer (c_id, c_name, c_phn_no, c_join_date, salary) values ('3354', 'NAYEM', '01315238970', '11-JUL-21', '55000.00')

insert into controlofficer (c_id, c_name, c_phn_no, c_join_date, salary) values ('3356', 'AKASH', '01315238972', '11-JAN-21', '65000.00')

insert into controlofficer (c_id, c_name, c_phn_no, c_join_date, salary) values ('3358', 'ABIR', '01315238974', '11-FEB-22', '75000.00')

insert into controlofficer (c_id, c_name, c_phn_no, c_join_date, salary) values ('3359', 'SADMAN', '01315238976', '11-OCT-22', '85000.00')

select* from controlofficer
```

C_ID	C_NAME	C_PHN_NO	C_JOIN_DATE	SALARY
3354	NAYEM	1315238970	11-JUL-21	55000
3356	AKASH	1315238972	11-JAN-21	65000
3358	ABIR	1315238974	11-FEB-22	75000
3359	SADMAN	1315238976	11-OCT-22	85000

Figure (7.10)

Communicate table insertion

ORACLE Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

```
 Autocommit Display 10 ▾
insert into communicate (pi_id, c_id) values ('2224', '3354')

insert into communicate (pi_id, c_id) values ('2227', '3356')

insert into communicate (pi_id, c_id) values ('2229', '3358')

insert into communicate (pi_id, c_id) values ('2226', '3359')

select* from communicate
```

PI_ID	C_ID
2224	3354
2227	3356
2229	3358
2226	3359

Figure (7.11)

Assist table insertion

ORACLE Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit Display 10

```
insert into assist (ah_name, ah_id, ah_join_date, ah_blood_group, ah_gender, ah_phn_no, salary, pi_id) values ('SADIA', '1009', '11-JAN-21', 'AB+', 'FEMALE', '01315239817', '9000', '2224')

insert into assist (ah_name, ah_id, ah_join_date, ah_blood_group, ah_gender, ah_phn_no, salary, pi_id) values ('PAPIA', '1010', '12-FEB-21', 'A+', 'FEMALE', '01303249949', '8000', '2227')

insert into assist (ah_name, ah_id, ah_join_date, ah_blood_group, ah_gender, ah_phn_no, salary, pi_id) values ('FARIA', '1014', '12-JUN-22', 'O+', 'FEMALE', '01318175642', '7000', '2229')

insert into assist (ah_name, ah_id, ah_join_date, ah_blood_group, ah_gender, ah_phn_no, salary, pi_id) values ('BRISTY', '1015', '17-JUL-23', 'B+', 'FEMALE', '01398574284', '6000', '2226')

select* from assist
```

AH_NAME	AH_ID	AH_JOIN_DATE	AH_BLOOD_GROUP	AH_GENDER	AH_PHN_NO	SALARY	PI_ID
SADIA	1009	11-JAN-21	AB+	FEMALE	1315239817	9000	2224
PAPIA	1010	12-FEB-21	A+	FEMALE	1303249949	8000	2227
FARIA	1014	12-JUN-22	O+	FEMALE	1318175642	7000	2229
BRISTY	1015	17-JUL-23	B+	FEMALE	1398574284	6000	2226

Figure (7.12)

Airline table insertion

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit Display 10

```
insert into airline values(78956, 'BD Airline')

insert into airline values(78945, 'EMIRATES')

insert into airline values(78934, 'SAUDI')

insert into airline values(78923, 'TURKEY')

select* from airline
```

AIRLINE_NO	AIRLINE_NAME
78956	BD Airline
78945	EMIRATES
78934	SAUDI
78923	TURKEY

Figure (7.13)

Work table insertion

ORACLE® Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > **SQL Commands**

Autocommit 10

```
insert into work (pi_id, pi_name, pi_phn_no, pi_join_date, pi_gender, pi_blood_group, salary, airline_no) values ('2224', 'KOPIL', '01715597478', '02-JAN-19', 'MALE', 'O+', 7000, 78956)

insert into work (pi_id, pi_name, pi_phn_no, pi_join_date, pi_gender, pi_blood_group, salary, airline_no) values ('2227', 'Sumiya', '01715597879', '15-MAR-20', 'FEMALE', 'A+', 8000, 78956)

insert into work (pi_id, pi_name, pi_phn_no, pi_join_date, pi_gender, pi_blood_group, salary, airline_no) values ('2229', 'Biswas', '01715598476', '26-JUN-22', 'MALE', 'O+', 8500, 78934)

alter table work modify (salary number (9,2))

insert into work (pi_id, pi_name, pi_phn_no, pi_join_date, pi_gender, pi_blood_group, salary, airline_no) values ('2226', 'Yea', '01715597477', '09-DEC-17', 'MALE', 'AB-', 10000, 78934)
```

ORACLE® Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > **SQL Commands**

Autocommit 10 F

```
insert into work (pi_id, Ah_name, Ah_id, Ah_join_date, Ah_blood_group, Ah_gender, Ah_phn_no, Salary ,Airline_no) values(1009,'SADIA',1009,'11-JAN-21','AB+','FEMALE',01315239817,9500,78956)

insert into work (pi_id, Ah_name, Ah_id, Ah_join_date, Ah_blood_group, Ah_gender, Ah_phn_no, Salary ,Airline_no) values(1010,'PAPIA',1010,'12-FEB-21','A+','FEMALE',01303249949,8000,78956)

insert into work (pi_id, Ah_name, Ah_id, Ah_join_date, Ah_blood_group, Ah_gender, Ah_phn_no, Salary ,Airline_no) values(1014,'FARIYA',1014,'14-JUN-22','O+','FEMALE',01318175642,7000,78934)

insert into work (pi_id, Ah_name, Ah_id, Ah_join_date, Ah_blood_group, Ah_gender, Ah_phn_no, Salary ,Airline_no) values(1015,'BRISTY',1015,'17-JUL-23','B+','FEMALE',01398574284,6000,78934)

select * from work
```

PI_ID	PI_NAME	PI_PHN_NO	PI_JOIN_DATE	PI_GENDER	PI_BLOOD_GROUP	salary	AH_NAME	AH_ID	AH_JOIN_DATE	AH_BLOOD_GROUP	AH_GENDER	AH_PHN_NO	AIRLINE_NO
2229	Biswas	1715598476	26-JUN-22	MALE	O+	8500	-	-	-	-	-	-	78934
2226	Yea	1715597477	09-DEC-17	MALE	AB-	10000	-	-	-	-	-	-	78934
1009	-	-	-	-	-	9500	SADIA	1009	11-JAN-21	AB+	FEMALE	1315239817	78956
1010	-	-	-	-	-	8000	PAPIA	1010	12-FEB-21	A+	FEMALE	1303249949	78956
1014	-	-	-	-	-	7000	FARIYA	1014	14-JUN-22	O+	FEMALE	1318175642	78934
1015	-	-	-	-	-	6000	BRISTY	1015	17-JUL-23	B+	FEMALE	1398574284	78934
2224	KOPIL	1715597478	02-JAN-19	MALE	O+	7000	-	-	-	-	-	-	78956
2227	Sumiya	1715597879	15-MAR-20	FEMALE	A+	8000	-	-	-	-	-	-	78956

Figure (7.14)

8. Query Test:

Simple query:

- Show the passenger name, passport no & visa of ‘GOPAL’.

ORACLE® Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > **SQL Commands**

Autocommit Display 10 ▾

```
select p_name, pass_no, visa
from passenger
where p_name = 'GOPAL'
```

P_NAME	PASS_NO	VISA
GOPAL	AZ267508	VL0086

Figure (8.1)

Single row subquery:

- Which airhostess have a salary greater than ‘PAPIA’ salary?

ORACLE® Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > **SQL Commands**

Autocommit Display 10 ▾

```
select ah_name, salary from airhostess
where salary >
(select salary from airhostess
where ah_name = 'PAPIA')
```

AH_NAME	SALARY
SADIA	90000

Figure (8.2)

Multiple row subquery:

- Show the passenger name & passport no of passenger table where airhostess id between 1010 to 1115 of service table.

ORACLE® Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit Display 10 ▾

```
select x.p_name, x.pass_no
from passenger x
where pass_no in
(select pass_no from service
where ah_id between 1010 and 1115)
```

P_NAME	PASS_NO
HABLU	AY690348
JOGESH	AX006890
NUT	AW396805

Figure (8.3)

Self joining:

- Make a self join for the table named passenger.

ORACLE® Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit Display 10 ▾

```
select a.p_name, a.pass_no, b.p_blood_group, b.visa
from passenger a, passenger b
where a.pass_no = b.pass_no
```

P_NAME	PASS_NO	P_BLOOD_GROUP	VISA
GOPAL	AZ267508	A+	VL0086
HABLU	AY690348	AB+	VL9069
JOGESH	AX006890	O+	-
NUT	AW396805	A-	VL3945

Figure (8.4)

Equi join:

- Show the passenger name, passport no of passenger table & airhostess id of service table where the passport no are same between two table.

ORACLE Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit Display 10 ▾

```
select passenger.p_name, passenger.pass_no, service.ah_id
from passenger, service
where passenger.pass_no = service.pass_no
```

P_NAME	PASS_NO	AH_ID
GOPAL	AZ267508	1009
HABLU	AY690348	1010
JOGESH	AX006890	1014
NUT	AW396805	1015

Figure (8.5)

Outer join:

- Write a query that will join the columns passenger name, passport no of passenger table & ticket no, flight no of the buy table.

ORACLE Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit Display 10 ▾

```
select passenger.p_name, passenger.pass_no, buy.ticket_no, buy.flight_no
from passenger, buy
where passenger.pass_no = buy.pass_no(+)
```

P_NAME	PASS_NO	TICKET_NO	FLIGHT_NO
GOPAL	AZ267508	10068	109
HABLU	AY690348	10069	110
JOGESH	AX006890	10070	115
NUT	AW396805	10071	116

Figure (8.6)

9. View Creation:

ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 10 ▾

```
grant create view to airlinemanagement
```

Results Explain Describe Saved SQL History

Statement processed.

Figure (9.1) : Permission

Simple view:

- Create a simple view which displays the airhostess name, joindate & salary of the airhostess table.

ORACLE Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

Autocommit Display 10 ▾

```
create view air as
select ah_name, ah_join_date, salary
from airhostess
where ah_id = 1010

select* from air
```

AH_NAME	AH_JOIN_DATE	SALARY
PAPIA	12-FEB-21	8000

Figure (9.2)

Complex view:

- Create a complex view which displays the passenger name, passport no of the passenger table & airhostess id of the service table.

ORACLE® Database Express Edition

User: AIRLINEMANAGEMENT

Home > SQL > SQL Commands

```
 Autocommit Display 10 ▾
create view peserve as
select passenger.p_name, passenger.pass_no, service.ah_id
from passenger, service
where passenger.pass_no = service.pass_no

select* from peserve
```

P_NAME	PASS_NO	AH_ID
GOPAL	AZ267508	1009
HABLУ	AY690348	1010
JOGESH	AX006890	1014
NUT	AW396805	1015

Figure (9.3)

10. Database Connection:

For database connection firstly, we need

1. MySQL java connector (jar file).
2. You need to search (xampp, apache, mariadb, perl, php) to install xampp server normally.
3. Select the xampp icon control and then start both apache and MySQL. Next go to MySQL admin panel.
4. Now create a Database , inside of it create table and insert the values in the table.

The pilot table in MySQL

P_ID	PI_NAME	PI_PHN_NO	PI_JOIN_DATE	PI_GENDER	PI_BLOOD_GROUP	SALARY
2224	KOPIL	1612114181	2020-01-11	MALE	A+	850000
2227	SUMAYA	1900885611	2020-07-15	FEMALE	AB+	800000
2229	BISWAS	1914488255	2021-06-15	MALE	O+	650000
2226	YEA	1315323722	2022-07-15	MALE	A+	550000

The passenger table in MySQL

p_name	pass_no	p_phn_no	p_gender	visa	p_blood_group
GOPAL	AZ267508	01300867918	MALE	VL0086	A+
HABLУ	AY690348	01700887910	MALE	VL9069	AB+
JOGESH	AX006890	01612014281	MALE	NULL	O+
NUT	AW396805	01590048410	MALE	VL3945	A-

The airhostess table in MySQL

ah_name	ah_id	ah_join_date	blood_group	ah_gender	ah_phn_no	salary
SADIA	1009	2021-01-11	AB+	FEMALE	01315239817	9500
PAPIA	1010	2021-02-11	A+	FEMALE	01303249949	8000
FARIA	1114	2022-06-14	O+	FEMALE	01318175642	7000
BRISTY	1115	2022-06-14	B+	FEMALE	01398574284	6000

Now we need an IDE. We can use it through eclipse, IntelliJ, visual codes.

Before that, we need these steps for connecting database.

- ➔ Register Driver
- ➔ Connect the DB
- ➔ Create a statement.
- ➔ Execute the query () in the resultstmtnt.
- ➔ Connection close ()

5. Now in the IDE we write the database connection code and add the jar file location in the libraries.

The pilot table's output will be:

Connected to the database

Pilot info:

Id	Name	Phone number	Join date	Blood group	Salary
2224	KOPIL	1612114181	2020-01-11	A+	850000
2227	SUMAYA	1900885611	2020-07-15	AB+	800000
2229	BISWAS	1914488255	2021-06-15	O+	650000
2226	YEA	1315323722	2022-07-15	A+	550000

The passenger table's output will be:

Connected to the database

Passenger Table :

pname	passno	pgender	phn	bloodgrp	visa
GOPAL	AZ267508	MALE	01300867918	A+	VL0086
HABLУ	AY690348	MALE	01700887910	AB+	VL9069
JOGESH	AX006890	MALE	1612014281	O+	null
NUT	AW396805	MALE	1590048410	A-	VL3945

The airhostess table's output will be:

SADIA	1009	2021-01-11	AB+	FEMALE	01315239817	9500
PAPIA	1010	2021-02-11	A+	FEMALE	01303249949	8000
FARIA	1114	2022-06-14	O+	FEMALE	01318175642	7000
BRISTY	1115	2022-06-14	B+	FEMALE	01398574284	6000

11. Conclusion:

The process of creating database is a fundamental part that plays a major role in modern information management. This report has highlighted the key steps and considerations involved in this process and emphasizing the importance of thorough planning, design and implementation.

The planning phase involves defining the purpose and scope of the database, identifying user requirements, and selecting an appropriate database management system . A well-thought-out database design is crucial to ensure efficient data storage, retrieval, and manipulation. This includes establishing a clear data model, defining relationships between entities, and optimizing data normalization to minimize redundancy and enhance data integrity.