

PROJECT: Airplane Ticket buying management system.

Course: Introduction to Database.

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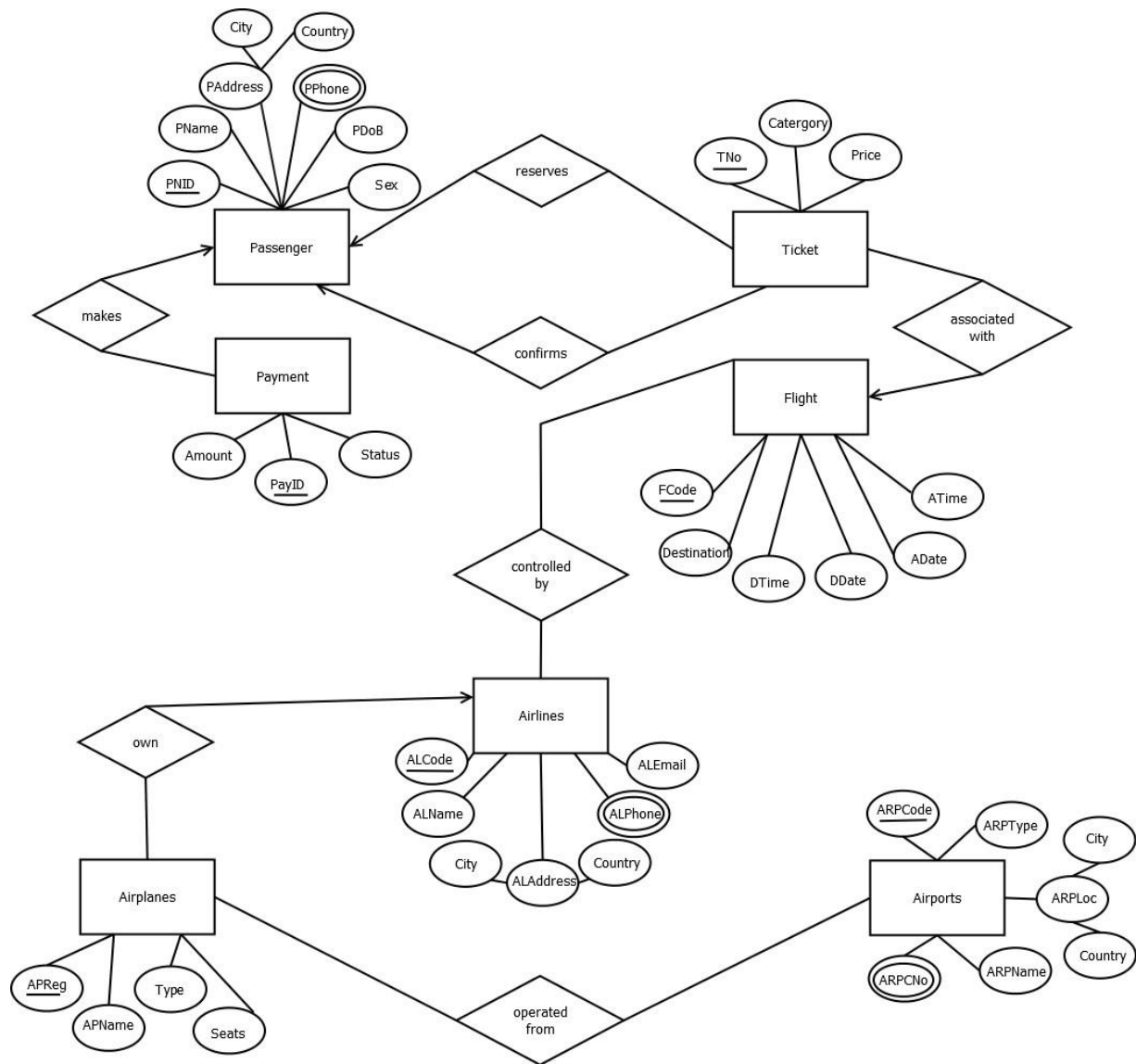
# **Introduction about the project**

The main objective of this project is to develop a basic data base project on the management system of buying airplane ticket.

## **Airline Ticket Management System Case Study:**


In an airline ticket management system a passenger may reserve many tickets. One ticket can be reserved by exactly one passenger. A passenger is identified by a **nid number**. The system also stores passenger name, address, sex, date of birth and phone no. The address is composed of city and country. A passenger may have multiple phone number. A ticket is identified by **ticket no**, category and price. The passenger (exactly one) makes payment and confirms the ticket. A ticket can be confirmed by exactly one passenger. Payment details such as **payment id**, paid amount and payment status are stored in the system. Each ticket is associated with a flight. A ticket is valid for exactly one flight. The flights are identified by **flight code**, departure time, departure date, destination, arrival time and arrival date. The flights are controlled by airline authorities. To identify the airlines, the system stores **airline code**, name, email, phone no (may have multiple value) and address (composed of city and country). Each airlines owns multiple airplanes. An airplane can be owned by exactly one Airline Company. The airplanes are separated by **reg no**, name, types and seats. The airplanes are operated from airport. The system stores **airport code**, type, name, location (city and country), and contact no. (multi valued) to distinguish one from another.

## ER Diagram:

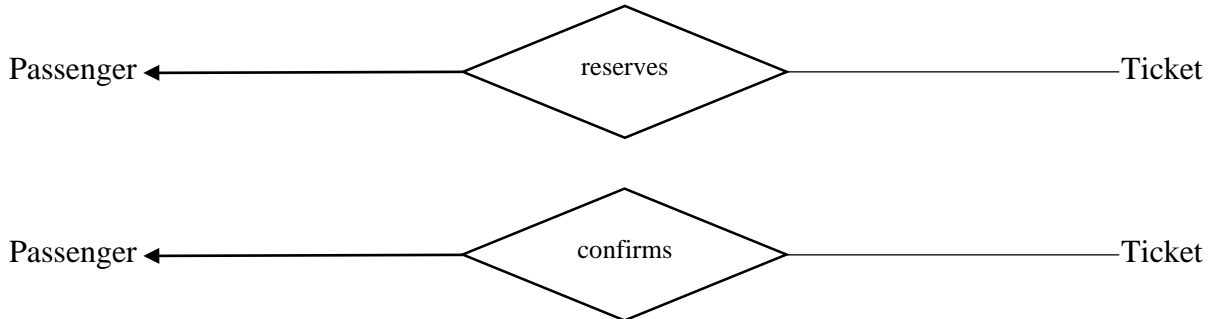


## Entity Sets:

- Passenger
- Payment
- Ticket
- Flight
- Airlines

- Airplanes 
- Airports

### Normalization:



**UNF:** 1<sup>st</sup>: PNid, PName, PPhone, PDoB, Sex, City, Country, TNo, Category, Price

**1NF:** 1<sup>st</sup>: PNid, PPhone, TNo, PName, PDoB, Sex, City, Country, Category, Price

**2NF:** 1<sup>st</sup>: PNid, PPhone, PName, PDoB, Sex, City, Country

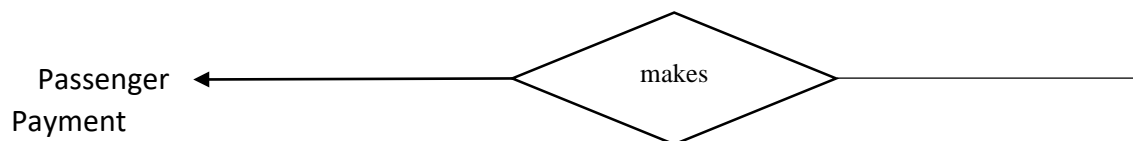
2<sup>nd</sup>: TNo, Category, Price, PNid, PPhone

**3NF:** 1<sup>st</sup>: PNid, PPhone, PName, PDoB, Sex, City

2<sup>nd</sup>: City, Country

3<sup>rd</sup>: TNo, Category, PNid, PPhone

4<sup>th</sup>: Category, Price



**UNF:** 1<sup>st</sup>: PNid, PName, PPhone, PDoB, Sex, City, Country, PayID, Amount, Status

**1NF:** 1<sup>st</sup>: PNid, PPhone, PayID, PName, PDoB, Sex, City, Country, Amount, Status

**2NF:** 1<sup>st</sup>: PNid, PPhone, PName, PDoB, Sex, City, Country,

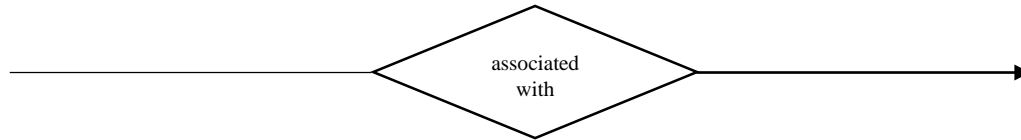
2<sup>nd</sup>: PayID, Amount, Status, PNid, PPhone

**3NF:** 1<sup>st</sup>: PNid, PPhone, PName, PDoB, Sex, City

2<sup>nd</sup>: City, Country

3<sup>rd</sup>: PayID, Amount, PNid, PPhone

4<sup>th</sup>: Amount, Status



Ticket Flight

**UNF:** 1<sup>st</sup>: TNo, Category, Price, FCode, Destination, DTime, DDate, ADate, ATime

**1NF:** 1<sup>st</sup>: TNo, FCode, Category, Price, Destination, DTime, DDate, ADate, ATime

**2NF:** 1<sup>st</sup>: TNo, Category, Price, FCode

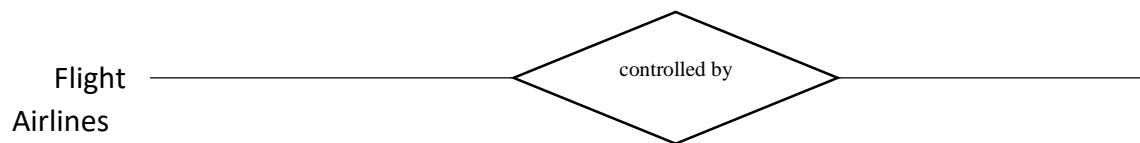
2<sup>nd</sup>: FCode, Destination, DTime, DDate, ADate, ATime

**3NF:** 1<sup>st</sup>: TNo, Category, FCode

2<sup>nd</sup>: Category, Price

3<sup>rd</sup>: FCode, Destination, DTime, DDate

4<sup>th</sup>: Destination, DDate, DTime, ADate, ATime



**UNF:** 1<sup>st</sup>: FCode, Destination, DTime, DDate, ADate, ATime, ALCode, ALName, City, Country, ALPhone, ALEmail

**1NF:** 1<sup>st</sup>: FCode, ALPhone, ALCode, Destination, DTime, DDate, ADate, ATime, ALName, City, Country, ALEmail

**2NF:** 1<sup>st</sup>: FCode, Destination, DTime, DDate, ADate, ATime

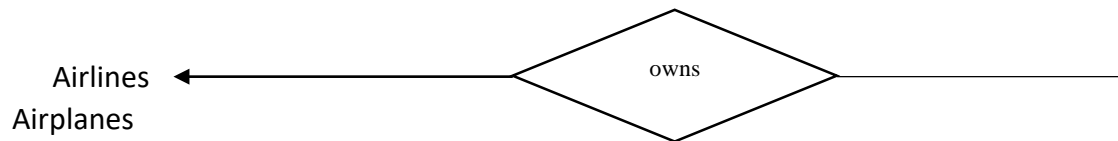
2<sup>nd</sup>: ALCode, ALPhone, ALName, City, Country, ALEmail, FCode

**3NF:** 1<sup>st</sup>: FCode, Destination, DTime, DDate

2<sup>nd</sup>: Destination, DDate, DTime, ADate, ATime

3<sup>th</sup>: ALCode, ALPhone, ALName, ALEmail, City, FCode

4<sup>th</sup>: City, Country



**UNF:** 1<sup>st</sup>: ALCode, ALName, City, Country, ALPhone, ALEmail, APReg, APName, Type, Seats

**1NF:** 1<sup>st</sup>: ALCode, ALPhone, APReg, ALName, City, Country, ALEmail, APName, Type, Seats

**2NF:** 1<sup>st</sup>: ALCode, ALPhone, ALName, City, Country, ALEmail

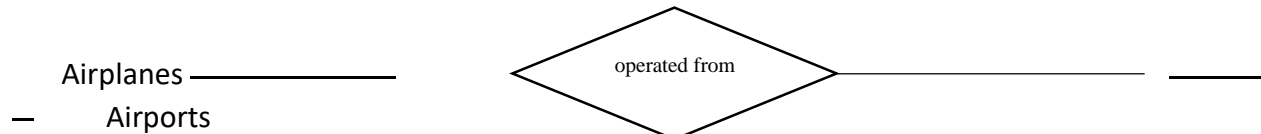
2<sup>nd</sup>: APReg, APName, Type, Seats, ALCode, ALPhone

**3NF:** 1<sup>st</sup>: ALCode, ALPhone, ALName, ALEmail, City

2<sup>nd</sup>: City, Country

3<sup>rd</sup>: APReg, APName, ALCode, ALPhone

4<sup>th</sup>: APName, Type, Seats



**UNF:** 1<sup>st</sup>: APReg, APName, Type, Seats, ARPCode, ARPTYPE, City, Country, ARPName, ARPCNo

**1NF:** 1<sup>st</sup>: APReg, ARPCNo, ARPCode, APName, Type, Seats, ARPTYPE, City, Country, ARPName,

**2NF:** 1<sup>st</sup>: APReg, APName, Type, Seats

2<sup>nd</sup>: ARPCode, ARPCNo, ARPName, ARPTYPE, City, Country, APReg

**3NF:** 1<sup>st</sup>: APReg, APName

2<sup>nd</sup>: APName, Type, Seats

3<sup>rd</sup>: ARPCode, ARPCNo, ARPName, ARPTType, City, APReg

4<sup>th</sup>: City, Country

### **Final Table:**

**PASSENGER:** PNid, PPhone, PName, PDoB, Sex, City

**ADDRESS:** City, Country

**TP\_INFO:** TNo, Category, PNid, PPhone

**T\_PRICE:** Category, Price

**PAY\_INFO:** PayID, Amount, PNid, PPhone

**PAY\_STATUS:** Amount, Status

**TF\_INFO:** TNo, Category, FCode

**F\_RECORD:** FCode, Destination, DTime, DDate

**F\_DETAILS:** Destination, DDate, DTime, ADate, ATime

**AL\_INFO:** ALCode, ALPhone, ALName, ALEmail, City, FCode

**AP\_INFO:** APReg, APName, ALCode, ALPhone

**AP\_DETAILS:** APName, Type, Seats

**ARP\_INFO:** ARPCode, ARPCNo, ARPName, ARPTType, City, APReg

### **Table Creation:**

**ADDRESS:** City, Country



Home > SQL > SQL Commands

☒ Autocommit    Display 100    Save    Run

```
CREATE TABLE ADDRESS (  
  CITY VARCHAR2(20),  
  COUNTRY VARCHAR2(20),  
  CONSTRAINT PK_CITY PRIMARY KEY (CITY) );
```

Results Explain Describe Saved SQL History

Table created.

0.37 seconds

Home > SQL > SQL Commands

☒ Autocommit    Display 100    Save    Run

```
CREATE TABLE ADDRESS (  
  CITY VARCHAR2(20),  
  COUNTRY VARCHAR2(20),  
  CONSTRAINT PK_CITY PRIMARY KEY (CITY) );  
  
DESCRIBE ADDRESS;
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **ADDRESS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ADDRESS	CITY	Varchar2	20	-	-	1	-	-	-
	COUNTRY	Varchar2	20	-	-	-	✓	-	-

1 - 2

**PASSENGER:** PNid, PPhone, PName, PDoB, Sex, City

Home > SQL > SQL Commands

☒ Autocommit Display 100 Save Run

```
CREATE TABLE PASSENGER (
  PNID NUMBER(13),
  PPHONE NUMBER(10),
  PNAME VARCHAR2(15),
  PDOB DATE,
  SEX VARCHAR2(6),
  CITY VARCHAR2(20),
  CONSTRAINT PK_PNID_PPHONE PRIMARY KEY (PNID, PPHONE),
  CONSTRAINT FK_CITY FOREIGN KEY (CITY) REFERENCES ADDRESS (CITY) );
```

Results Explain Describe Saved SQL History

Table created.

0.05 seconds

☒ Autocommit Display 100 Save Run

```
CREATE TABLE PASSENGER (
  PNID NUMBER(13),
  PPHONE NUMBER(10),
  PNAME VARCHAR2(15),
  PDOB DATE,
  SEX VARCHAR2(6),
  CITY VARCHAR2(20),
  CONSTRAINT PK_PNID_PPHONE PRIMARY KEY (PNID, PPHONE),
  CONSTRAINT FK_CITY FOREIGN KEY (CITY) REFERENCES ADDRESS (CITY) );
```

DESCRIBE PASSENGER ;

Results Explain Describe Saved SQL History

Object Type TABLE Object PASSENGER

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PASSENGER	PNID	Number	-	13	0	1	-	-	-
	PPHONE	Number	-	10	0	2	-	-	-
	PNAME	Varchar2	15	-	-	-	✓	-	-
	PDOB	Date	7	-	-	-	✓	-	-
	SEX	Varchar2	6	-	-	-	✓	-	-
	CITY	Varchar2	20	-	-	-	✓	-	-
1 - 6									

T\_PRICE: Category, Price

Home > SQL > **SQL Commands**

☒ Autocommit Display 100 Save Run

```
CREATE TABLE T_PRICE (
  CATEGORY VARCHAR2(3),
  PRICE NUMBER(6),
  CONSTRAINT PK_CATEGORY PRIMARY KEY (CATEGORY) );|
```

Results Explain Describe Saved SQL History

Table created.

0.02 seconds

Home > SQL > **SQL Commands**

☒ Autocommit Display 100 Save Run

```
CREATE TABLE T_PRICE (
  CATEGORY VARCHAR2(3),
  PRICE NUMBER(6),
  CONSTRAINT PK_CATEGORY PRIMARY KEY (CATEGORY) );
DESCRIBE T_PRICE;
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **T\_PRICE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
T_PRICE	CATEGORY	Varchar2	3	-	-	1	-	-	-
	PRICE	Number	-	6	0	-	✓	-	-

1 - 2

**TP\_INFO:** TNo, Category, PNid, PPhone

Home > SQL > **SQL Commands**

☒ Autocommit Display 100 Save Run

```
CREATE TABLE TP_INFO (
  TNO NUMBER(7),
  CATEGORY VARCHAR2(3),
  PNID NUMBER(13),
  PPHONE NUMBER(10),
  CONSTRAINT PK_TNO PRIMARY KEY (TNO),
  CONSTRAINT FK_TP_CATEGORY FOREIGN KEY (CATEGORY) REFERENCES T_PRICE (CATEGORY),
  CONSTRAINT FK_TP_PNID FOREIGN KEY (PNID, PPHONE) REFERENCES PASSENGER (PNID,PPHONE) );|
```

Results Explain Describe Saved SQL History

Table created.

0.01 seconds

Autocommit Display 100 Save Run

```
CREATE TABLE TP_INFO (
  TNO NUMBER(7),
  CATEGORY VARCHAR2(3),
  PNID NUMBER(13),
  PPHONE NUMBER(10),
  CONSTRAINT PK_TNO PRIMARY KEY (TNO),
  CONSTRAINT FK_TP_CATEGORY FOREIGN KEY (CATEGORY) REFERENCES T_PRICE (CATEGORY),
  CONSTRAINT FK_TP_PNID FOREIGN KEY (PNID, PPHONE) REFERENCES PASSENGER (PNID,PPHONE) );
```

DESCRIBE TP\_INFO;

Results Explain Describe Saved SQL History

Object Type TABLE Object TP\_INFO

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TP_INFO	TNO	Number	-	7	0	1	-	-	-
	CATEGORY	Varchar2	3	-	-	-	✓	-	-
	PNID	Number	-	13	0	-	✓	-	-
	PPHONE	Number	-	10	0	-	✓	-	-
1 - 4									

PAY\_STATUS: Amount, Status

Home > SQL > SQL Commands

Autocommit Display 100 Save Run

```
CREATE TABLE PAY_STATUS (
  AMOUNT NUMBER(6),
  STATUS VARCHAR2(6),
  CONSTRAINT PK_AMOUNT PRIMARY KEY (AMOUNT) );
```

Results Explain Describe Saved SQL History

Table created.

0.01 seconds

Home > SQL > SQL Commands

Autocommit Display 100 Save Run

```
CREATE TABLE PAY_STATUS (
  AMOUNT NUMBER(6),
  STATUS VARCHAR2(6),
  CONSTRAINT PK_AMOUNT PRIMARY KEY (AMOUNT) );
```

DESCRIBE PAY\_STATUS;

Results Explain Describe Saved SQL History

Object Type TABLE Object PAY\_STATUS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PAY_STATUS	AMOUNT	Number	-	6	0	1	-	-	-
	STATUS	Varchar2	6	-	-	-	✓	-	-
1 - 2									

PAY\_INFO: PayID, Amount, PNid, PPhone

Home > SQL > SQL Commands

☒ Autocommit Display 100 Save Run

```
CREATE TABLE PAY_INFO (
  PAYID VARCHAR2(10),
  AMOUNT NUMBER(6),
  PNID NUMBER(13),
  PPHONE NUMBER(10),
  CONSTRAINT PK_PAYID PRIMARY KEY (PAYID),
  CONSTRAINT FK_PI_AMOUNT FOREIGN KEY (AMOUNT) REFERENCES PAY_STATUS (AMOUNT),
  CONSTRAINT FK_PI_PPNID_PPHONE FOREIGN KEY (PNID,PPHONE) REFERENCES PASSENGER (PNID, PPHONE) );
```

**1**

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

Table created.

Home > SQL > SQL Commands

☒ Autocommit Display 100 Save Run

```
CREATE TABLE PAY_INFO (
  PAYID VARCHAR2(10),
  AMOUNT NUMBER(6),
  PNID NUMBER(13),
  PPHONE NUMBER(10),
  CONSTRAINT PK_PAYID PRIMARY KEY (PAYID),
  CONSTRAINT FK_PI_AMOUNT FOREIGN KEY (AMOUNT) REFERENCES PAY_STATUS (AMOUNT),
  CONSTRAINT FK_PI_PPNID_PPHONE FOREIGN KEY (PNID,PPHONE) REFERENCES PASSENGER (PNID, PPHONE) );
```

**1**

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

Object Type **TABLE** Object **PAY\_INFO**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PAY_INFO	PAYID	Varchar2	10	-	-	1	-	-	-
	AMOUNT	Number	-	6	0	-	✓	-	-
	PNID	Number	-	13	0	-	✓	-	-
	PPHONE	Number	-	10	0	-	✓	-	-

1 - 4

**F\_DETAILS:** Destination, DDate, DTime, ADate, ATime

Home > SQL > SQL Commands

☒ Autocommit Display 100 Save Run

```
CREATE TABLE F_DETAILS (
  DESTINATION VARCHAR2(15),
  DDATE DATE,
  DTIME VARCHAR2(10),
  ADATE DATE,
  ATIME VARCHAR2(10),
  CONSTRAINT PK_FDETAILS PRIMARY KEY (DESTINATION, DDATE, DTIME) );
```

**3**

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

Table created.

0.02 seconds

Home > SQL > **SQL Commands**

☒ Autocommit Display 100 Save Run

```
CREATE TABLE F_DETAILS (
  DESTINATION VARCHAR2(15),
  DDATE DATE,
  DTIME VARCHAR2(10),
  ADATE DATE,
  ATIME VARCHAR2(10),
  CONSTRAINT PK_FDETAILS PRIMARY KEY (DESTINATION, DDATE, DTIME) );
```

**DESCRIBE F\_DETAILS;**

Results Explain Describe **Saved SQL** History

Object Type **TABLE** Object **F\_DETAILS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
F_DETAILS	DESTINATION	Varchar2	15	-	-	1	-	-	-
	DDATE	Date	7	-	-	2	-	-	-
	DTIME	Varchar2	10	-	-	3	-	-	-
	ADATE	Date	7	-	-	-	✓	-	-
	ATIME	Varchar2	10	-	-	-	✓	-	-
									1 - 5

## F\_RECORD: FCode, Destination, DTime, DDate

Home > SQL > **SQL Commands**

☒ Autocommit Display 100 Save Run

```
CREATE TABLE F_RECORD (
  FCODE VARCHAR2(8),
  DESTINATION VARCHAR2(15),
  DDATE DATE,
  DTIME VARCHAR2(10),
  CONSTRAINT PK_FRECORD PRIMARY KEY (FCODE),
  CONSTRAINT FK_FRECORD FOREIGN KEY (DESTINATION, DDATE, DTIME)
    REFERENCES F_DETAILS (DESTINATION, DDATE, DTIME) );
```

Results Explain Describe **Saved SQL** History

Table created.

0.01 seconds

Autocommit Display 100 Save Run

```
CREATE TABLE F_RECORD (
  FCODE VARCHAR2(8),
  DESTINATION VARCHAR2(15),
  DDATE DATE,
  DTIME VARCHAR2(10),
  CONSTRAINT PK_FRECORD PRIMARY KEY (FCODE),
  CONSTRAINT FK_FRECORD FOREIGN KEY (DESTINATION, DDATE, DTIME)
    REFERENCES F_DETAILS (DESTINATION, DDATE, DTIME) );
```

DESCRIBE F\_RECORD;

Results Explain Describe Saved SQL History

Object Type TABLE Object F\_RECORD

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
F_RECORD	FCODE	Varchar2	8	-	-	1	-	-	-
	DESTINATION	Varchar2	15	-	-	-	✓	-	-
	DDATE	Date	7	-	-	-	✓	-	-
	DTIME	Varchar2	10	-	-	-	✓	-	-
1 - 4									

TF\_INFO: TNO, Category, FCode

Home > SQL > SQL Commands

Autocommit Display 100 Save Run

```
CREATE TABLE TF_INFO (
  TNO VARCHAR2(8),
  CATEGORY VARCHAR2(3),
  FCODE VARCHAR2(8),
  CONSTRAINT PK_TFINFO PRIMARY KEY (TNO),
  CONSTRAINT FK_TFINFO_CAT FOREIGN KEY (CATEGORY) REFERENCES T_PRICE (CATEGORY),
  CONSTRAINT FK_TFINFO_FCODE FOREIGN KEY (FCODE) REFERENCES F_RECORD (FCODE) );
```

Results Explain Describe Saved SQL History

Table created.

0.02 seconds

Home > SQL > SQL Commands

Autocommit Display 100 Save Run

```
CREATE TABLE TF_INFO (
  TNO VARCHAR2(8),
  CATEGORY VARCHAR2(3),
  FCODE VARCHAR2(8),
  CONSTRAINT PK_TFINFO PRIMARY KEY (TNO),
  CONSTRAINT FK_TFINFO_CAT FOREIGN KEY (CATEGORY) REFERENCES T_PRICE (CATEGORY),
  CONSTRAINT FK_TFINFO_FCODE FOREIGN KEY (FCODE) REFERENCES F_RECORD (FCODE) );
```

DESCRIBE TF\_INFO;

Results Explain Describe Saved SQL History

Object Type TABLE Object TF\_INFO

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TF_INFO	TNO	Varchar2	8	-	-	1	-	-	-
	CATEGORY	Varchar2	3	-	-	-	✓	-	-
	FCODE	Varchar2	8	-	-	-	✓	-	-
1 - 3									



## AL\_INFO: ALCode, ALPhone, ALName, ALEmail, City, FCode

Home > SQL > SQL Commands

☒ Autocommit Display 100 Save Run

```
CREATE TABLE AL_INFO (  
  ALCODE VARCHAR2(8), ALPHONE VARCHAR2(3),  
  ALNAME VARCHAR2(30), ALEMAIL VARCHAR2(30),  
  CITY VARCHAR2(20), FCODE VARCHAR2(8),  
  CONSTRAINT PK_ALINFO PRIMARY KEY (ALCODE, ALPHONE),  
  CONSTRAINT FK_ALINFO_CITY FOREIGN KEY (CITY) REFERENCES ADDRESS (CITY),  
  CONSTRAINT FK_ALINFO_FCODE FOREIGN KEY (FCODE) REFERENCES F_RECORD (FCODE) );
```

Results Explain Describe Saved SQL History

Table created.

0.03 seconds

☒ Autocommit Display 100 Save Run

```
CREATE TABLE AL_INFO (  
  ALCODE VARCHAR2(8), ALPHONE VARCHAR2(3),  
  ALNAME VARCHAR2(30), ALEMAIL VARCHAR2(30),  
  CITY VARCHAR2(20), FCODE VARCHAR2(8),  
  CONSTRAINT PK_ALINFO PRIMARY KEY (ALCODE, ALPHONE),  
  CONSTRAINT FK_ALINFO_CITY FOREIGN KEY (CITY) REFERENCES ADDRESS (CITY),  
  CONSTRAINT FK_ALINFO_FCODE FOREIGN KEY (FCODE) REFERENCES F_RECORD (FCODE) );
```

**DESCRIBE AL\_INFO;**

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **AL\_INFO**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AL_INFO	ALCODE	Varchar2	8	-	-	1	-	-	-
	ALPHONE	Varchar2	3	-	-	2	-	-	-
	ALNAME	Varchar2	30	-	-	-	✓	-	-
	ALEMAIL	Varchar2	30	-	-	-	✓	-	-
	CITY	Varchar2	20	-	-	-	✓	-	-
	FCODE	Varchar2	8	-	-	-	✓	-	-

1 - 6

## AP\_DETAILS: APName, Type, Seats



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☒ Autocommit Display 100 Save Run

```
CREATE TABLE AP_DETAILS (
  APNAME VARCHAR2(13),
  TYPE NUMBER(1),
  SEATS NUMBER(4),
  CONSTRAINT PK_APDETAILS PRIMARY KEY (APNAME) );|
```

2

Results Explain Describe Saved SQL History

Table created.

0.02 seconds

Home > SQL > SQL Commands

☒ Autocommit Display 100 Save Run

```
CREATE TABLE AP_DETAILS (
  APNAME VARCHAR2(13),
  TYPE NUMBER(1),
  SEATS NUMBER(4),
  CONSTRAINT PK_APDETAILS PRIMARY KEY (APNAME) );
DESCRIBE AP_DETAILS;
```

2

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **AP\_DETAILS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AP_DETAILS	APNAME	Varchar2	13	-	-	1	-	-	-
	TYPE	Number	-	1	0	-	✓	-	-
	SEATS	Number	-	4	0	-	✓	-	-
1 - 3									

**AP\_INFO:** APReg, APName, ALCode, ALPhone

Home > SQL > SQL Commands

☒ Autocommit Display 100 Save Run

```
CREATE TABLE AP_INFO (
  APREG VARCHAR2(13),
  APNAME VARCHAR2(13), ALCODE VARCHAR2(8), ALPHONE VARCHAR2(3),
  CONSTRAINT PK_APINFO PRIMARY KEY (APREG),
  CONSTRAINT FK_APINFO_APNAME FOREIGN KEY (APNAME) REFERENCES AP_DETAILS (APNAME),
  CONSTRAINT FK_APINFO_AL FOREIGN KEY (ALCODE, ALPHONE) REFERENCES AP_INFO (ALCODE, ALPHONE) );
```

Results Explain Describe Saved SQL History

Table created.

0.07 seconds

Home > SQL > SQL Commands

☒ Autocommit   Display 100   Save   Run

```
CREATE TABLE AP_INFO (
  APREG VARCHAR2(13),
  APNAME VARCHAR2(13), ALCODE VARCHAR2(8), ALPHONE VARCHAR2(3),
  CONSTRAINT PK_APINFO PRIMARY KEY (APREG),
  CONSTRAINT FK_APINFO_APNAME FOREIGN KEY (APNAME) REFERENCES AP_DETAILS (APNAME),
  CONSTRAINT FK_APINFO_AL FOREIGN KEY (ALCODE, ALPHONE) REFERENCES AL_INFO (ALCODE, ALPHONE) );
```

DESCRIBE AP\_INFO;

[Results](#)   [Explain](#)   [Describe](#)   [Saved SQL](#)   [History](#)

Object Type **TABLE** Object **AP\_INFO**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AP_INFO	APREG	Varchar2	13	-	-	1	-	-	-
	APNAME	Varchar2	13	-	-	-	✓	-	-
	ALCODE	Varchar2	8	-	-	-	✓	-	-
	ALPHONE	Varchar2	3	-	-	-	✓	-	-
1 - 4									

**ARP\_INFO:** ARPCode, ARPCNo, ARPName, ARPType, City, APReg

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```
CREATE TABLE ARP_INFO (
  ARPCODE VARCHAR2(6), ARPCNO NUMBER(10), ARPNAME VARCHAR2(100),
  ARPTYPE NUMBER(1), CITY VARCHAR2(20), APREG VARCHAR2(13),
  CONSTRAINT PK_ARPINFO PRIMARY KEY (ARPCODE, ARPCNO),
  CONSTRAINT FK_ARPINFO_CITY FOREIGN KEY (CITY) REFERENCES ADDRESS (CITY),
  CONSTRAINT FK_ARPINFO_APREG FOREIGN KEY (APREG) REFERENCES AP_INFO (APREG) );
```

[Results](#)   [Explain](#)   [Describe](#)   [Saved SQL](#)   [History](#)

Table created.

0.01 seconds

```
CREATE TABLE ARP_INFO (
  ARPCODE VARCHAR2(6), ARPCNO NUMBER(10), ARPNAME VARCHAR2(100),
  ARPTYPE NUMBER(1), CITY VARCHAR2(20), APREG VARCHAR2(13),
  CONSTRAINT PK_ARPINFO PRIMARY KEY (ARPCODE, ARPCNO),
  CONSTRAINT FK_ARPINFO_CITY FOREIGN KEY (CITY) REFERENCES ADDRESS (CITY),
  CONSTRAINT FK_ARPINFO_APREG FOREIGN KEY (APREG) REFERENCES AP_INFO (APREG) );
```

DESCRIBE ARP\_INFO;

2

Results Explain Describe Saved SQL History

Object Type TABLE Object ARP\_INFO

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ARP_INFO	ARPCODE	Varchar2	6	-	-	1	-	-	-
	ARPCNO	Number	-	10	0	2	-	-	-
	ARPNAME	Varchar2	100	-	-	-	✓	-	-
	ARPTYPE	Number	-	1	0	-	✓	-	-
	CITY	Varchar2	20	-	-	-	✓	-	-
	APREG	Varchar2	13	-	-	-	✓	-	-
1 - 6									

## Data insertion

### ADDRESS

insert into address values ('CoxsBazar', 'Bangladesh');

insert into address values ('Dhaka', 'Bangladesh');

insert into address values ('Chittagong', 'Bangladesh');

SELECT \* FROM ADDRESS;

Results Explain Describe Saved SQL History

CITY	COUNTRY
CoxsBazar	Bangladesh
Dhaka	Bangladesh
Chittagong	Bangladesh

3 rows returned in 0.02 seconds

[CSV Export](#)

### Passenger

insert into passenger values (1111, 1790330338, 'MIRZA', to\_date('2000-07-26', 'yyyy-mm-dd'), 'Male', 'CoxsBazar');

insert into passenger values (2222, 1790330338, 'ISMATH', to\_date('2000-07-26', 'yyyy-mm-dd'), 'Male', 'Chittagong');

insert into passenger values (3333, 1790330338, 'NUSRAT', to\_date('2000-07-26', 'yyyy-mm-dd'), 'Male', 'Dhaka');

SELECT \* FROM passenger;

Results Explain Describe Saved SQL History

PNID	PPHONE	PNAME	PDOB	SEX	CITY
1111	1790330338	MIRZA	26-JUL-00	Male	CoxsBazar
2222	1790330338	ISMATH	26-JUL-00	Male	Chittagong
3333	1790330338	NUSRAT	26-JUL-00	Male	Dhaka

3 rows returned in 0.00 seconds

[CSV Export](#)

## T PRICE

insert into t\_price values ('S', 7000 );

insert into t\_price values ('A', 5000 );

insert into t\_price values ('B', 3000 );

SELECT \* FROM t\_price;

Results	Explain	Describe	Saved SQL	History
CATEGORY	PRICE			
S	7000			
A	5000			
B	3000			

3 rows returned in 0.01 seconds [CSV Export](#)

## TP INFO

insert into tp\_info values (1, 'S', 1111, 1790330338 );

insert into tp\_info values (2, 'A', 2222, 1790330338 );

insert into tp\_info values (3, 'B', 3333, 1790330338 );

SELECT \* FROM tp\_info ;

Results Explain Describe Saved SQL History

TNO	CATEGORY	PNID	PPHONE
1	S	1111	1790330338
2	A	2222	1790330338
3	B	3333	1790330338

3 rows returned in 0.00 seconds CSV Export

## Pay status

insert into pay\_status values (3000, 'OK' );

insert into pay\_status values (5000, 'OK' );

insert into pay\_status values (7000, 'OK' );

insert into pay\_status values (2000, 'Prtial' );

SELECT \* FROM pay\_status ;

Results	Explain	Describe	Saved SQL	History
AMOUNT	STATUS			
3000	OK			
5000	OK			
7000	OK			
2000	Prtial			

4 rows returned in 0.00 seconds [CSV Export](#)

### Pay info

```
insert into pay_info values ('P1', 5000, 1111, 1790330338 );
insert into pay_info values ('P2', 7000, 2222, 1790330338 );
insert into pay_info values ('P3', 2000, 3333, 1790330338 );
SELECT * FROM pay_info ;
```

Results Explain Describe Saved SQL History

PAYID	AMOUNT	PNID	PPHONE
P1	5000	1111	1790330338
P2	7000	2222	1790330338
P3	2000	3333	1790330338

3 rows returned in 0.00 seconds CSV Export

### F details

```
insert into f_details values ('CoxsBazar', to_date('29-12-2020','dd-mm-yyyy'), '09.30 AM',
to_date('29-12-2020','dd-mm-yyyy'), '10.20 AM' )
insert into f_details values ('Chittagong', to_date('29-12-2020','dd-mm-yyyy'), '11.30 AM',
to_date('29-12-2020','dd-mm-yyyy'), '12.00 PM' )
insert into f_details values ('Saidpur', to_date('29-12-2020','dd-mm-yyyy'), '02.00 PM',
to_date('29-12-2020','dd-mm-yyyy'), '03.00 PM' )
SELECT * FROM f_details;
```

Results	Explain	Describe	Saved SQL	History
DESTINATION	DDATE	DTIME	ADATE	ATIME
CoxsBazar	29-DEC-20	09.30 AM	29-DEC-20	10.20 AM
Chittagong	29-DEC-20	11.30 AM	29-DEC-20	12.00 PM
Saidpur	29-DEC-20	02.00 PM	29-DEC-20	03.00 PM

3 rows returned in 0.00 seconds [CSV Export](#)

### F\_record

```
insert into f_record values ('F0101', 'Saidpur', to_date('29-12-2020','dd-mm-yyyy'), '02.00 PM' );
insert into f_record values ('F0102', 'CoxsBazar', to_date('29-12-2020','dd-mm-yyyy'), '09.30 AM' );
```

```
insert into f_record values ('F0103', 'Chittagong', to_date('29-12-2020','dd-mm-yyyy'), '11.30 AM' );
```

```
SELECT * FROM f_record;
```

Results	Explain	Describe	Saved SQL	History
F0101	DESTINATION	DDATE	DTIME	
F0101	Saidpur	29-DEC-20	02.00 PM	
F0102	CoxsBazar	29-DEC-20	09.30 AM	
F0103	Chittagong	29-DEC-20	11.30 AM	

3 rows returned in 0.00 seconds [CSV Export](#)

### Tf\_info

```
insert into tf_info values ('T01', 'S', 'F0101','A');
insert into tf_info values ('T02', 'A', 'F0101','B');
insert into tf_info values ('T03', 'S', 'F0102', 'C');
insert into tf_info values ('T04', 'S', 'F0103', 'D');
```

```
SELECT * FROM tf_info ;
```

Results	Explain	Describe	Saved SQL	History
TNO	CATEGORY	F0101	DTIME	
T01	S	F0101	A	
T02	A	F0101	B	
T03	S	F0102	C	
T04	S	F0103	D	

4 rows returned in 0.00 seconds [CSV Export](#)

### AI info

```
insert into al_info values ('AL01', '632', 'Biman Airline', 'biman@bimanAL.com', 'Dhaka', 'F0101' );
```

```
insert into al_info values ('AL02', '632', 'US Airline', 'usal@usAL.com', 'Dhaka', 'F0102' );
```

```
insert into al_info values ('AL03', '623', 'Ainovo Airline', 'ainovo@novoAL.com', 'Chittagong', 'F0103' );
```

```
SELECT * FROM al_info;
```

Results Explain Describe Saved SQL History

ALCODE	ALPHONE	ALNAME	ALEMAIL	CITY	FCODE
AL01	632	Biman Airline	biman@bimanAL.com	Dhaka	F0101
AL02	632	US Airline	usal@usAL.com	Dhaka	F0102
AL03	623	Ainovo Airline	ainovo@novoAL.com	Chittagong	F0103

3 rows returned in 0.00 seconds

[CSV Export](#)

### Ap details

```
insert into ap_details values ('Boeing 7x7', '1', '240');
```

```
insert into ap_details values ('Boeing 7xx7', '2', '360');
```

```
insert into ap_details values ('Boeing x77', '3', '180');
```

```
SELECT * FROM ap_details;
```

Results Explain Describe Saved SQL History

APNAME	TYPE	SEATS
Boeing 7x7	1	240
Boeing 7xx7	2	360
Boeing x77	3	180

3 rows returned in 0.00 seconds

[CSV Export](#)

### Ap info

```
insert into ap_info values ('BDAP001', 'Boeing 7x7', 'AL01', '632');
```

```
insert into ap_info values ('BDAP002', 'Boeing 7xx7', 'AL02', '632');
```

```
insert into ap_info values ('BDAP003', 'Boeing x77', 'AL03', '623');
```

```
SELECT * FROM ap_info;
```

Results Explain Describe Saved SQL History

APREG	APNAME	ALCODE	ALPHONE
BDAP001	Boeing 7x7	AL01	632
BDAP002	Boeing 7xx7	AL02	632
BDAP003	Boeing x77	AL03	623

3 rows returned in 0.00 seconds

[CSV Export](#)

### Arp info



```

insert into arp_info values ('CX001', '1234567890', 'CoxsBazar Airport', '1', 'CoxsBazar',
'BDAP001');
insert into arp_info values ('CTG001', '9876543210', 'Chittagong Airport', '1', 'Chittagong',
'BDAP003');
insert into arp_info values ('DHA001', '1303215771', 'Dhaka Airport', '3', 'Dhaka', 'BDAP002');
SELECT * FROM arp_info;

```

Results Explain Describe Saved SQL History					
ARPCODE	ARPCNO	ARPNAME	ARPTYPE	CITY	APREG
CX001	1234567890	CoxsBazar Airport	1	CoxsBazar	BDAP001
CTG001	9876543210	Chittagong Airport	1	Chittagong	BDAP003
DHA001	1303215771	Dhaka Airport	3	Dhaka	BDAP002

3 rows returned in 0.00 seconds [CSV Export](#)

## View:

Create a simple view named Passenger\_Info based on Pnid, pname and city

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☒ Autocommit
Display 100
Save Run

```

create view Passenger_Info
AS
select pnid, pname, city
from passenger ;

```

Results Explain Describe Saved SQL History

View created.

0.11 seconds



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☒ Autocommit Display 100 Save Run

```
create view Passenger_Info
AS
  select pnid, pname, city
  from passenger ;
```

**Describe Passenger\_Info;**

Results Explain **Describe** Saved SQL History

Object Type VIEW Object PASSENGER\_INFO

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PASSENGER_INFO	PNID	Number	-	13	0	-	-	-	-
	PNAME	Varchar2	15	-	-	-	✓	-	-
	CITY	Varchar2	20	-	-	-	✓	-	-

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Create a complex view named TP\_Pricing\_Sum showing min, max, avg price.

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☒ Autocommit Display 100 Save Run

```
create view TP_Pricing_Sum
  (Min, Max, Avg)
AS
  select min(price), max(price), avg(price)
  from t_price ;
```

Results Explain **Describe** Saved SQL History

View created.

0.00 seconds

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☒ Autocommit Display 100 Save Run

```
create view TP_Pricing_Sum
  (Min, Max, Avg)
AS
  select min(price), max(price), avg(price)
  from t_price ;
```

**Describe TP\_Pricing\_Sum;**

Results Explain **Describe** Saved SQL History

Object Type VIEW Object TP\_PRICING\_SUM

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TP_PRICING_SUM	MIN	Number	-	-	-	-	✓	-	-
	MAX	Number	-	-	-	-	✓	-	-
	AVG	Number	-	-	-	-	✓	-	-

1 - 3

## SEQUENCE

CREATE SEQUENCE SEQ\_TICKET INCREMENT BY 5 START WITH 1 MAXVALUE 100;

```
CREATE SEQUENCE SEQ_AIRPLANE INCREMENT BY 2 START WITH 1 MAXVALUE 500;
```

```
SELECT * FROM USER_SEQUENCES;
```

**Results** Explain Describe Saved SQL History

SEQUENCE_NAME	MIN_VALUE	MAX_VALUE	INCREMENT_BY	CYCLE_FLAG	ORDER_FLAG	CACHE_SIZE	LAST_NUMBER
SEQ_TICKET	1	100	5	N	N	20	1
SEQ_AIRPLANE	1	500	2	N	N	20	1

2 rows returned in 0.00 seconds

[CSV Export](#)