

```
show databases;
```

```
create database air cargo;
```

```
show databases
```

```
create table if not exists customer(
```

```
    customer_id int not null auto_increment primary key,
```

```
    first_name varchar(20) not null,
```

```
    last_name varchar(20) not null,
```

```
    date_of_birth date not null,
```

```
    gender char(1) not null
```

```
);
```

```
describe customer;
```

```
select * from customer;
```

```
create table if not exists routes(
```

```
    route_id int not null unique primary key,
```

```
    flight_num int constraint chk_1 check (flight_num is not null),
```

```
    origin_airport char(3) not null,
```

```
    destination_airport char(3) not null,
```

```
    aircraft_id varchar(10) not null,
```

```
    distance_miles int not null constraint check_2 check (distance_miles > 0) );
```

```
select * from routes;
```

```
create table if not exists pof(
```

```
    pof_id int auto_increment primary key,
```

```
    customer_id int not null,
```

```
    aircraft_id varchar(10) not null,
```

```
    route_id int not null,
```

```
    depart char(3) not null,
```

```
arrival char(3) not null,  
seat_num char(4) not null,  
class_id varchar(15) not null,  
travel_date date not null,  
flight_num int not null,  
constraint fk_pof foreign key (customer_id) references customer(customer_id)  
);  
select * from POF;
```

```
create table if not exists ticket_details(  
    tkt_id int auto_increment primary key,  
    p_date date not null,  
    customer_id int not null,  
    aircraft_id varchar(10) not null,  
    class_id varchar(15) not null,  
    no_of_tkts int not null,  
    a_code char(3) not null,  
    price_per_tkt decimal(5,2) not null,  
    brand varchar(30) not null,  
    constraint fk_tkt_dts foreign key (customer_id) references customer(customer_id)  
);
```

```
describe ticket_details;  
select * from ticket_details;
```

```
select * from customer  
where customer_id in (select distinct customer_id from pof where route_id between 1 and 25)  
order by customer_id;
```

```
select * from customer  
where customer_id in (select distinct customer_id from pof where route_id between 1 and 25)
```

```
order by customer_id;
```

```
SELECT CONCAT(first_name," ",last_name ) as full_name from customer;
```

```
SELECT CONCAT(first_name," ",last_name ) as full_name from customer;
```

```
select first_name, Last_name from customer  
where customer_id in (select distinct b.customer_id from customer a, ticket_details b);
```

```
select first_name, Last_name from customer  
where customer_id in (select distinct b.customer_id from customer a, ticket_details b);
```

```
select first_name, Last_name from customer  
where customer_id in (select distinct b.customer_id from customer a, ticket_details b);
```

```
select * from customer a  
inner join (select distinct customer_id from pof where class_id = 'Economy Plus') b  
on a.customer_id = b.customer_id;
```

```
select if ((select sum(no_of_tkts * price_per_tkt) as total_revenue from ticket_details)> 10000,  
'Crossed 10K', 'Not Crossed 10K') as revenue_check;
```

```
create user if not exists 'pavan'@'127.0.0.1' identified by 'Password123';  
grant all privileges on aircargo to pavan@127.0.0.1 ;
```

```
select class_id, max(price_per_tkt)
from ticket_details
group by class_id
```

```
select class_id, max(price_per_tkt)
from ticket_details
group by class_id
```

```
create index idx_rid on pof (route_id);
explain select * from pof where route_id = 4;
```

```
explain select * from pof where route_id = 4;
```

```
SELECT customer_id, aircraft_id,
       SUM(price_per_tkt * no_of_tkts) AS total_price
FROM ticket_details
GROUP BY customer_id , aircraft_id
ORDER BY customer_id , aircraft_id;
```

```
SELECT customer_id, aircraft_id,
       SUM(price_per_tkt * no_of_tkts) AS total_price
FROM ticket_details
GROUP BY customer_id , aircraft_id
WITH ROLLUP ORDER BY customer_id , aircraft_id;
```

```
create view buss_class_customers as
select a.*, b.brand from customer a
inner join (select distinct customer_id, brand from ticket_details where class_id = 'Bussiness' order
by customer_id) b
```

```
on a.customer_id = b.customer_id;
```

```
create view buss_class_customers as
```

```
select a.*, b.brand from customer a
```

```
inner join (select distinct customer_id, brand from ticket_details where class_id = 'Bussiness' order  
by customer_id) b
```

```
on a.customer_id = b.customer_id;
```

```
select * from buss_class_customers;
```

```
select * from customer where customer_id in (select distinct customer_id from pof where route_id  
in (1,5));
```

```
delimiter //
```

```
create procedure check_route (in rid varchar(255))
```

```
begin
```

```
    declare TableNotFound condition for 1146;
```

```
    declare exit handler for TableNotFound
```

```
        select 'Please check if table customer/route id are created - onr/both are missing'  
Message;
```

```
    set @query = concat('select * from customer where customer_id in ( select distinct customer_id  
from pof where route_id in (',rid,')');');
```

```
    prepare sql_query from @query;
```

```
    execute sql_query;
```

```
end//
```

```
delimiter ;
```

```
call check_route("1,5");
```

```
delimiter //
```

```
create procedure check_dist()
```

```
begin
```

```
    select * from routes where distance_miles > 2000;
```

```
end //
```

```
delimiter ;
```

```
call check_dist;
```

```
select flight_num, distance_miles, case
    when distance_miles between 0 and 2000 then "SDT"
    when distance_miles between 2001 and 6500 then "IDT"
    else "LDT"
end distance_category from routes;
```

```
delimiter //
```

```
create function group_dist(dist int)
```

```
returns varchar(10)
```

```
deterministic
```

```
begin
```

```
    declare dist_cat char(3);
```

```
    if dist between 0 and 2000 then
```

```
        set dist_cat = 'SDT';
```

```
    elseif dist between 2001 and 6500 then
```

```
        set dist_cat = 'IDT';
```

```
    elseif dist > 6500 then
```

```
        set dist_cat = 'LDT';
```

```
    end if;
```

```
    return(dist_cat);
```

```
end //
```

```
create procedure group_dist_proc()
```

```
begin
```

```
        select flight_num, distance_miles, group_dist(distance_miles) as distance_category from
routes;
    end //
delimiter ;
```

```
call group_dist_proc();
```

```
select p_date, customer_id, class_id, case
                                when class_id in
('Bussiness','Economy Plus') then "Yes"
                                else "No"
                                end as
complimentary_service from ticket_details;
```

```
DELIMITER //
CREATE FUNCTION check_comp_serv(cls VARCHAR(15))
RETURNS CHAR(3)
DETERMINISTIC
BEGIN
    DECLARE comp_ser CHAR(3);
    IF cls IN ('Business', 'Economy Plus') THEN
        SET comp_ser = 'Yes';
    ELSE
        SET comp_ser = 'No';
    END IF;
    RETURN comp_ser;
END //
```

```
CREATE PROCEDURE check_comp_serv_proc()
BEGIN
    SELECT p_date, customer_id, class_id, check_comp_serv(class_id) AS complimentary_service
    FROM ticket_details;
```

END;

CALL check_comp_serv_proc();

select * from customer where last_name = 'Scott' limit 1;

delimiter //

create procedure cust_lname_Scott()

begin

declare c_id int;

declare f_name varchar (20);

declare l_name varchar(20);

declare dob date;

declare gen char(1);

declare cust_rec cursor

for

select * from customer where last_name = "Scott";

create table if not exists cursor_table(

c_id int,

f_name varchar(20),

l_name varchar(20),

dob date,

gen char (1));

open cust_rec;

fetch cust_rec into c_id, f_name, l_name, dob, gen;

insert into cursor_table(c_id, f_name, l_name, dob, gen) values (c_id, f_name, l_name, dob, gen);

close cust_rec;

select * from cursor_table;


```
end //
```

```
delimiter ;
```

```
call cust_lname_scott();
```