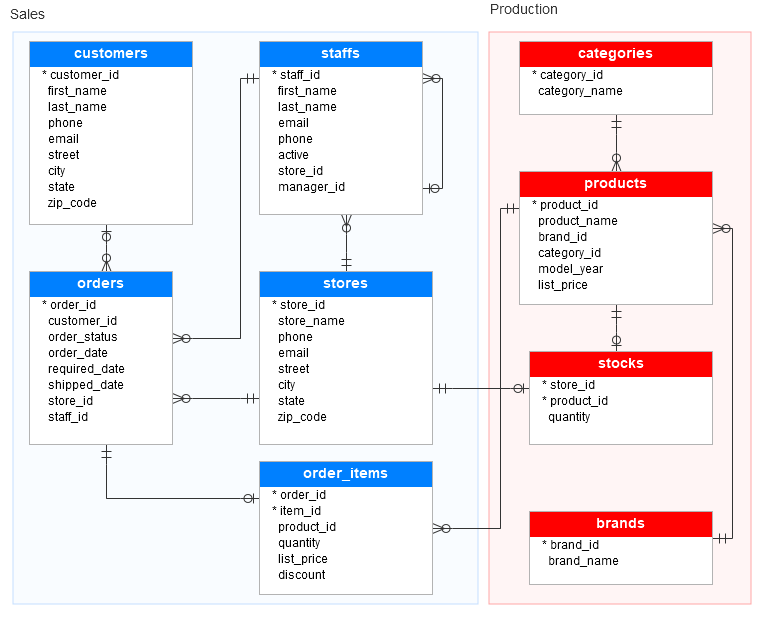
**Bike Stores Sample Database**





Write SQL for the below.

1. Get the list of Orders which are expected to be delivered late.

ans:

select \* from sales\_orders

where required\_date>shipped\_date

1. Get Sales of product which has maximum orders.

Ans:

select a.ProductName,a.Product\_id,b.no\_of\_orders,a.sales from

(select

p.product\_name as ProductName,p.product\_id as Product\_id,

sum((i.quantity\*i.list\_price) - discount) as sales

from

production\_products p

join

sales\_order\_items i

on

p.product\_id=i.product\_id

group by

p.product\_name,

p.product\_id) a

inner join

(select top 1 product\_id,count(order\_id) no\_of\_orders from sales\_order\_items group by product\_id order by no\_of\_orders desc ) b

on a.Product\_id = b.Product\_id

3. Get category wise which product has no orders.

Ans:

select pc.category\_id,pc.category\_name,pp.product\_id,pp.product\_name,soi.order\_id from production\_categories pc

left join

production\_products pp

on pc.category\_id=pp.category\_id

left join

sales\_order\_items soi

on pp.product\_id=soi.product\_id

where

soi.order\_id is null

4. Get the product list details which needs immediate replenishment.

Ans:

select pp.product\_id,pp.product\_name,ps.quantity from production\_stocks ps

join

production\_products pp

on ps.product\_id=pp.product\_id

where ps.quantity=0;

5. Get year wise which customer placed maximum order items in single order.

Ans: select \* from (

select \*, rank() over(partition by year order by no\_of\_items desc ) rank\_1 from (

select count(soi.item\_id) no\_of\_items,so.order\_id order\_id,sc.customer\_id customer\_id,year(so.order\_date) year from

sales\_order\_items soi left join

sales\_orders so on so.order\_id = soi.order\_id

inner join sales\_customers sc on

sc.customer\_id = so.customer\_id

group by so.order\_id,sc.customer\_id,year(so.order\_date)) a) b

where rank\_1 =1