**Bike Stores Sample Database**

Diagram

Description automatically generated



Write SQL for the below.

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

select

order\_id,customer\_id,order\_status

from sales\_orders

1. where shipped\_date>required\_date
2. Get Sales of product which has maximum orders.

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

1. on a.Product\_id = b.Product\_id
2. Get category wise which product has no orders.

SELECT \* FROM

production\_categories C

JOIN

production\_products P

ON C.category\_id=P.category\_id

JOIN

sales\_order\_items OI

on oi.product\_id=p.product\_id

1. where p.product\_id in(select product\_id from production\_products )
2. Get the product list details which needs immediate replenishment.

select s.store\_id ,s.product\_id

from production\_products p

left join production\_stocks s

on s.product\_id=p.product\_id

where s.quantity<1

group by s.store\_id,s.product\_id

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

select o.customer\_id,datepart(year,o.order\_date) year,count(\*) abc\_count

from sales\_orders o left join sales\_order\_items oi

on o.order\_id=oi.order\_id

group by o.customer\_id,o.order\_date

order by abc\_count desc