--1 select all the author's details

select \* from authors

--2 print all the author's full name

select CONCAT(au\_fname, ' ', au\_lname) Author\_full\_name from authors

--3 print the avg price, total price of all the titles

select avg(price) avg\_price, price from titles

group by price, title

--4 print the avg price of titles published by '0736'

select avg(price) avg\_price from titles where pub\_id = '0736'

--5 print the titles which have advance min 3200 and max of 5000

select title from titles where advance between 3200 and 5000

--6 print the titles which are the type 'psychology' or 'mod\_cook'

select title from titles where type in ('psychology','mod\_cook')

--7 print all titles published before '1991-06-09 00:00:00.000'

select title from titles where pubdate < '1991-06-09'

--or select title from titles where pubdate < '1991-06-09 00:00:00.000'

--8 select all the authors from 'CA'

select \* from authors where state ='CA'

--9 print the avg price of titles in every type

select avg(price) avg\_price\_of\_title, type from titles

group by type

--10 print the sum of price of all the books published by every publisher

select sum(price) total\_price\_of\_books\_published, p.pub\_name

from titles t right outer join publishers p on t.pub\_id = p.pub\_id

group by p.pub\_name

--11 print the first published title in every type

select type , min(pubdate) 'First published date' from titles

group by type

--correct ans

--12 calculate the total royalty for every publisher

select sum(royalty) total\_royalty, pub\_name from titles t join publishers p on t.pub\_id=p.pub\_id

group by pub\_name

--13 print the titles sorted by published date

select title from titles

order by pubdate

--14 print the titles sorted by publisher then by price

select title, pub\_id, price from titles

order by pub\_id, price

--15 print the books published by author 'CA'

select title, a.state from titles t

join titleauthor ta on ta.title\_id=t.title\_id

join authors a on a.au\_id=ta.au\_id

where a.state ='CA'

--16 Print the author name of books whcih have royalty more than the average royalty of all the titletes

select CONCAT(a.au\_fname, ' ', a.au\_lname) Author\_full\_name, t.royalty from authors a

join titleauthor ta on a.au\_id=ta.au\_id

join titles t on t.title\_id=ta.title\_id

where t.royalty > (select avg(royalty) from titles)

-- alternative ans can be selection in selection in selection

--17 Print all the city and the number of pulishers in it, only if the city has more than one publisher

select city, count(pub\_id) 'No of publisher' from publishers

group by city

having count(pub\_id) > 1

--correct

--18) Print the total number of orders for every title

select count (title\_id) total\_num\_of\_orders, title\_id from sales

group by title\_id

--19) Print the total number of titles in every order

select count(title\_id) total\_num\_of\_titles, ord\_num from sales

group by ord\_num

--20) Print the order date and the title name

select s.ord\_date, t.title from sales s

join titles t on s.title\_id=t.title\_id

--21) Print all the title names and publisher names

select title, pub\_name from titles t full outer join publishers p on t.pub\_id=p.pub\_id

--22) print all the publisher names(even if they have not published) and the title names that they have published

select pub\_name, title from titles t full outer join publishers p on t.pub\_id=p.pub\_id

--23) print the title id and the numebr of authors contributing to it

select title\_id, count(au\_id) number\_of\_authors\_contributing from titleauthor

group by title\_id

--24) Print the titl name and the author name

select t.title, CONCAT(au\_fname, ' ', au\_lname) Author\_full\_name

from titles t join titleauthor ta on t.title\_id=ta.title\_id

join authors a on a.au\_id=ta.au\_id

--25) print the title name, author name and the publisher name

select t.title, CONCAT(au\_fname, ' ', au\_lname) Author\_full\_name , p.pub\_name

from titles t join titleauthor ta on t.title\_id=ta.title\_id

join authors a on a.au\_id=ta.au\_id

join publishers p on p.pub\_id=t.pub\_id

--26) print the titl name author name, publisher name, orderid, order date, quantity ordered and the total price

select t.title, CONCAT(au\_fname, ' ', au\_lname) Author\_full\_name , p.pub\_name, ord\_num, ord\_date, qty, qty\*t.price total\_price

from titles t join titleauthor ta on t.title\_id=ta.title\_id

join authors a on a.au\_id=ta.au\_id

join publishers p on p.pub\_id=t.pub\_id

join sales s on s.title\_id=t.title\_id

--27) given a title name, print the stores in which it was sold

select stor\_name

from stores st join sales sa on sa.stor\_id=st.stor\_id

join titles t on t.title\_id=sa.title\_id

where title = 'The Gourmet Microwave'

--28) Select the stores who have taken more than 2 orders

--group by emp id n count > 2

select stor\_name, sa.stor\_id, count(ord\_num) no\_of\_orders from sales sa

join stores st on st.stor\_id=sa.stor\_id

group by stor\_name,sa.stor\_id

having count(ord\_num)>2

--alternative

select stor\_id , count(ord\_num) no\_of\_orders from sales

group by stor\_id

having count(ord\_num)>2

--29) Select all the titles and print the first order date (titles that have not be ordered should also be present)

select title, min(ord\_date) first\_order\_date from titles t

left outer join sales s on s.title\_id = t.title\_id

group by title

--full outer join also can

--30) select all the data from teh orderes and the authors table --cross join

select \* from sales cross join authors