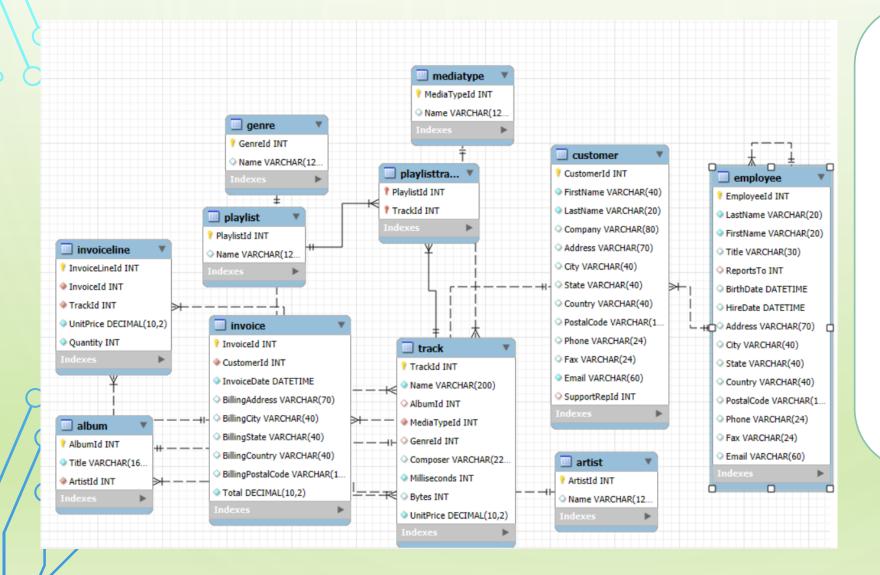
THE DATABASES FROM "CHINOOK"

DIGITAL MUSIC STORE

EER DIAGRAM



NOTES:

THIS IS THE Enhanced EntityRelationship DIAGRAM OF THIS
DATA SET .HERE I FOUND THE
11 TABLES IN THIS , AND THE
EMPLOYEE , CUSTOMER ,
TRACK,INVOICE ,INVOICELINE
AND ALBUM ARE THE KEY

TABLE OF THIS DATABASE.

1.QUERY TO FIND AVG OF MILLISECONDS PLAYED IN TRACK.

SELECT AVG(MILLISECONDS) AS AVGMILLISECONDS
FROM TRACK;



AVGMILLISECONDS

393599.2121

2.QUERY TO FIND TOTAL NUMBER OF CUSTOMERS.

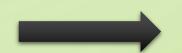
SELECT COUNT(CUSTOMERID) AS TOTAL_CUSTOMER
FROM CUSTOMER;



	TOTAL_CUSTOMER		
•	59	59	

3.QUERY TO FIND TOTAL REVENUE IN INVOICE.

SELECT SUM(TOTAL) AS TOTAL_REVENUE
FROM INVOICE;



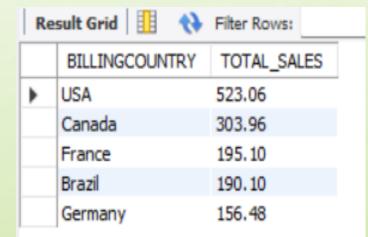
	TOTAL_REVENUE
•	2328.60

4. Which five countries generated the highest total sales based on the billing information?

QUERY

SELECT distinct BILLINGCOUNTRY,
SUM(TOTAL) AS TOTAL_SALES
FROM INVOICE
GROUP BY BILLINGCOUNTRY
ORDER BY TOTAL_SALES desc
LIMIT 5;





• IN THIS I FETCH THE DATA FROM INVOICE TABLE AND GET THE VALUE OF TOTAL SALES OF TOP 5 COUNTRY.

5.List all unique tracks that have been sold, along with their price and the quantity sold. (INNER JOIN)

QUERY

OUTPUT

SELECT distinct TRACK.NAME,

TRACK.UNITPRICE,

INVOICELINE.QUANTITY

FROM TRACK

INNER JOIN INVOICELINE

ON TRACK.TRACKID = INVOICELINE.TRACKID;

Result Grid Filter Rows:					
	NAME	UNITPRICE	QUANTITY		
Þ	Balls to the Wall	0.99	1		
	Restless and Wild	0.99	1 1 1		
	Put The Finger On You	0.99			
	Inject The Venom	0.99			
	Evil Walks	0.99	1		
	Breaking The Rules	0.99	1		
	Dog Est Dog	0.00	1		

- IN THIS QUERY FIND THE VALUE FROM TRACK TABLE
 TO FETCH THE UNTIPRICE AND QUANTITY .
 - BY USING INNER JOIN.

6.Top 5 - CUSTOMER GENERATED HIGHEST REVENU

(Joints)

Query

SELECT INVOICE.CUSTOMERID,

CUSTOMER.FIRSTNAME,

CUSTOMER.COUNTRY,

SUM(TOTAL) AS HIGHREVENUE

FROM INVOICE INVOICE

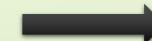
JOIN CUSTOMER CUSTOMER

ON INVOICE.CUSTOMERID= CUSTOMER.CUSTOMERID

GROUP BY CUSTOMERID

ORDER BY HIGHREVENUE DESC

LIMIT 5;



- THIS QUERY TO FIND THE TOP 5 COUNTRY MADE HIGH REVENUE BY CALCULATE BY TOTAL.
 - USING INNER JOIN AND GROUP BY ,ORDER BY FUNCTION .

	CUSTOMERID	FIRSTNAME	COUNTRY	HIGHREVENUE
)	6	Helena	Czech Republic	49.62
	26	Richard	USA	47.62
	57	Luis	Chile	46,62
	45	Ladislav	Hungary	45.62
	46	Hugh	Ireland	45.62

7. Which three artists have the highest number of tracks in the music database. (JOIN)

Query

SELECT (AR.NAME)AS ARTIST_NAME,

COUNT(T.TRACKID) AS TRACKCOUNT

FROM ARTIST AR

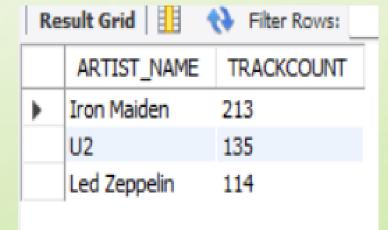
JOIN ALBUM AL ON AL.ARTISTID = AR.ARTISTID

JOIN TRACK T ON AL.ALBUMID= T.ALBUMID

GROUP BY AR.ARTISTID

ORDER BY TRACKCOUNT desc

LIMIT 3;



- IN THIS QUERY ABOUT FIND TOP 3 ARTIST ARE MADE HIGH TRACKS.
 - USING INNER JOIN TO JOIN THREE TABLES

8.QUERY TO FIND EACH EMPLOYEE EXPERIENCE BY HIREDATE.

Query

```
SELECT EMPLOYEEID ,
FIRSTNAME,
COUNTRY,
HIREDATE ,
timestampdiff(YEAR, HIREDATE, CURDATE()) AS EXPERIENCE
FROM EMPLOYEE;
```

	EMPLOYEEID	FIRSTNAME	COUNTRY	HIREDATE	EXPERIENCE
•	1	Andrew	Canada	2002-08-14 00:00:00	22
	2	Nancy	Canada	2002-05-01 00:00:00	23
	3	Jane	Canada	2002-04-01 00:00:00	23
	4	Margaret	Canada	2003-05-03 00:00:00	22
	5	Steve	Canada	2003-10-17 00:00:00	21
	6	Michael	Canada	2003-10-17 00:00:00	21
	7	Robert	Canada	2004-01-02 00:00:00	21
	8	Laura	Canada	2004-03-04 00:00:00	21

- THIS QUERY TO FIND THE EACH EMPLOYEE EXPERIENCE CALCULATE BY HIRE DATE FROM EMPLOYEE TABLE.
- USING TIMESTAMDIFF DATE FUNCTION.

9.QUERY TO FIND EACH EMPLOYEE'S AND THE AVERAGE INVOICE. (SUBQUERY)

Query

SELECT

FirstName,

LastName,

(SELECT AVG(Total) FROM Invoice) AS AverageInvoiceTotal

FROM

Employee;

	FirstName	LastName	AverageInvoiceTotal
•	Andrew	Adams	5.651942
	Nancy	Edwards	5.651942
	Jane	Peacock	5.651942
	Margaret	Park	5.651942
	Steve	Johnson	5.651942
	Michael	Mitchell	5.651942
	Robert	King	5.651942
	Laura	Callahan	5.651942

- QUERY TO FIND EACH EMPLOYEE AVERAGE TOTAL .
 - BY USING SUBQUERY.

10. much revenue has each customer generated for the company. (SUBQUERY)



 QUERY TO FIND TOTAL CUSTOMER INVOICE BY USING SUBQUERY AND ORDERBY COUNTRY .

11. Which support employees handled the least revenue, and who were their customers. (window function)

```
select e.employeeid ,
    e.firstname as employee_name ,
    c.firstname as customer_name ,
    i.billingcountry ,
    sum(i.total) over(partition by i.total order by e.employeeid ) as total_handled
    from customer c
    join employee e on c.supportrepid = e.employeeid
    join invoice i on c.customerid = i.customerid
    order by total_handled
    limit 5;
```

utput	

	employeeid	employee_name	customer_name	billingcountry	total_handled
•	4	Margaret	Dominique	France	2.98
	3	Jane	Puja	India	5.97
	3	Jane	Tim	USA	5.97
	3	Jane	Manoj	India	5.97
	5	Steve	Joakim	Sweden	6.94

• THE TOP 5 EMPLOYEES ARE MAKE TOTAL REVENUE AND HANDLE OF CUSTOMER AFTER USING WINDOWS FUNCTIONS BY ORDER BY TOTAL HANDLED.

12. Which are the top 10 largest tracks by file size across all albums. (windows function)

```
select al.title as album_name ,
t.name as track_name ,
rank() over(order by t.bytes desc ) as ranking_by_bytes
from track t
join album al on t.albumid = al.albumid
limit 10;
```

	Output		
	album_name	track_name	ranking_by_bytes
١	Lost, Season 3	Through a Looking Glass	1
	Battlestar Galactica, Season 3	Occupation / Precipice	2
	Battlestar Galactica (Classic), Season 1	The Young Lords	3
	Battlestar Galactica (Classic), Season 1	The Man With Nine Lives	4
	Lost, Season 2	Dave	5
	Battlestar Galactica (Classic), Season 1	The Magnificent Warriors	6
	Battlestar Galactica (Classic), Season 1	The Lost Warrior	7
	Lost, Season 2	Maternity Leave	8
	Battlestar Galactica (Classic), Season 1	Battlestar Galactica, Pt. 3	9
	Battlestar Galactica, Season 3	The Woman King	10

Outnut

 TO FIND THE TOP 10 ALBUMS ARE GET HIGH BYTES FROM TRACK TABLE AND RANK BY WINDOWS FUNCTION.