

Grading Rubric: Chinook Music Store — Sales Analysis

Schema: chinook | 8 questions | 100 points total

Question Requirements

Q	Pts	Techniques	Required tables	Required fields	Clauses
1	5	select, where, order_by	chinook.Customer	Customer.FirstName, Customer.LastName, Customer.Email	WHERE, ORDER BY
2	5	select, where, order_by	chinook.Track	Track.Name, Track.UnitPrice	WHERE, ORDER BY
3	10	join, order_by	chinook.Track, chinook.Genre, chinook.MediaType	Track.Name, Genre.Name, MediaType.Name	JOIN, ORDER BY
4	10	left_join, aggregate, group_by	chinook.Artist, chinook.Album	Artist.Name, Album.AlbumId	JOIN, GROUP BY
5	15	join, aggregate, group_by, having	chinook.Genre, chinook.Track	Genre.Name, Track.TrackId	JOIN, GROUP BY
6	15	join, aggregate, group_by, order_by	chinook.Employee, chinook.Customer, chinook.Invoice	Employee.FirstName, Employee.LastName, Employee.Title, Invoice.Total	JOIN, GROUP BY, ORDER BY
7	20	subquery, in_clause, join	chinook.Customer, chinook.Invoice	Customer.FirstName, Customer.LastName, Customer.Email	WHERE
8	20	join, aggregate, group_by, case_when, order_by	chinook.Invoice	Invoice.BillingCountry, Invoice.InvoiceId, Invoice.Total	GROUP BY, ORDER BY

Deduction Schedule

Each question starts at full credit. The deductions below are applied against that question's point value and cannot take it below zero.

Issue	Deduction
Required table missing from the query	-3 per table
Required field missing from the SELECT list	-2 per field
Required WHERE condition missing or using the wrong operator	-3 per condition
WHERE clause omitted entirely when one is required	-5
JOIN omitted when the question requires one	-5
GROUP BY omitted when the question requires one	-4

Issue	Deduction
ORDER BY omitted when one is required	-4
ORDER BY on the wrong field	-2 per field
ORDER BY in the wrong direction	-1 per field

Reference Solutions

For instructor and TA use. A student answer that differs from the reference but returns the correct result set earns full credit.

Q1 (5 pts)

```
SELECT Customer.FirstName, Customer.LastName, Customer.Email FROM chinook.Customer WHERE Customer.Country = 'USA'
```

Q2 (5 pts)

```
SELECT Track.Name, Track.UnitPrice FROM chinook.Track WHERE Track.UnitPrice > 0.99 ORDER BY Track.UnitPrice DESC,
```

Q3 (10 pts)

```
SELECT Track.Name, Genre.Name, MediaType.Name FROM chinook.Track JOIN chinook.Genre ON Track.GenreId = Genre.GenreId
```

Q4 (10 pts)

```
SELECT Artist.Name, COUNT(Album.AlbumId) AS AlbumCount FROM chinook.Artist LEFT JOIN chinook.Album ON Artist.ArtistId = Album.ArtistId
```

Q5 (15 pts)

```
SELECT Genre.Name, COUNT(Track.TrackId) AS TrackCount FROM chinook.Genre JOIN chinook.Track ON Genre.GenreId = Track.GenreId
```

Q6 (15 pts)

```
SELECT Employee.FirstName, Employee.LastName, Employee.Title, SUM(Invoice.Total) AS TotalRevenue FROM chinook.Employee JOIN chinook.Invoice ON Employee.EmployeeId = Invoice.EmployeeId
```

Q7 (20 pts)

```
SELECT Customer.FirstName, Customer.LastName, Customer.Email FROM chinook.Customer WHERE Customer.CustomerId NOT IN (SELECT CustomerId FROM chinook.Customer WHERE CustomerId = 1)
```

Q8 (20 pts)

```
SELECT Invoice.BillingCountry, COUNT(Invoice.InvoiceId) AS InvoiceCount, ROUND(SUM(Invoice.Total), 2) AS TotalRevenue FROM chinook.Invoice
```