

IS 456 IT Database Systems Management

Programming Exercise 3

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- IS 456 IT Database Systems Management
 - Programming Exercise 3
 - Task 1
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- Use the Chinook Database

Task 1

- Write a **SELECT** statement to return the **Invoiceid**, **Customerid** and **Invoicedate** *columns* from the **invoices** **table**
- Use the **ORDER BY** clause to sort **invoicedate** in **ASC** order.

```
SELECT InvoiceId,  
       CustomerId,  
       InvoiceDate  
FROM invoices  
ORDER BY InvoiceDate ASC;
```

				Total rows loaded: 412
	InvoiceId	CustomerId	InvoiceDate	
1	1	2	2009-01-01 00:00:00	
2	2	4	2009-01-02 00:00:00	
3	3	8	2009-01-03 00:00:00	
4	4	14	2009-01-06 00:00:00	
5	5	23	2009-01-11 00:00:00	
6	6	37	2009-01-19 00:00:00	
7	7	38	2009-02-01 00:00:00	
8	8	40	2009-02-01 00:00:00	
9	9	42	2009-02-02 00:00:00	
10	10	46	2009-02-03 00:00:00	
11	11	52	2009-02-06 00:00:00	
12	12	2	2009-02-11 00:00:00	
13	13	16	2009-02-19 00:00:00	
14	14	17	2009-03-04 00:00:00	
15	15	19	2009-03-04 00:00:00	
16	16	21	2009-03-05 00:00:00	
17	17	25	2009-03-06 00:00:00	

Task 2

- Write a **SELECT** statement that will remove the duplicate records from the **city** column from the **customers** table.

```
SELECT DISTINCT(city)
FROM customers
ORDER BY city DESC;
```

		(city)
1		Yellowknife
2		Winnipeg
3		Warsaw
4		Vienne
5		Vancouver
6		Tucson
7		Toronto
8		São Paulo
9		São José dos Campos
10		Stuttgart
11		Stockholm
12		Sidney
13		Santiago
14		Salt Lake City
15		Rome
16		Rio de Janeiro
17		Reno
18		Redmond
19		Prague
20		Porto
21		Paris
22		Ottawa
23		Oslo
24		Orlando

Task 3

- Write a **SELECT** statement to return **name**, **composer** and **albumid** from **tracks** **table**
- Write a **SELECT** statement to return **albums** with **id** number higher than 5.
- **Order** the results by **Order Value** descending.

```
--Task 3-1
SELECT name, composer, AlbumId
FROM tracks;
```

Total rows loaded: 3503			
	name	composer	AlbumId
1	For Those About To Rock (We Salute You)	Angus Young, Malcolm Young, Brian Johnson	1
2	Balls to the Wall	NULL	2
3	Fast As a Shark	F. Baltes, S. Kaufman, U. Dirksneider & W. Hoffman	3
4	Restless and Wild	F. Baltes, R.A. Smith-Diesel, S. Kaufman, U. Dirksneider & W. Hoffman	3
5	Princess of the Dawn	Deaffy & R.A. Smith-Diesel	3
6	Put The Finger On You	Angus Young, Malcolm Young, Brian Johnson	1
7	Let's Get It Up	Angus Young, Malcolm Young, Brian Johnson	1
8	Inject The Venom	Angus Young, Malcolm Young, Brian Johnson	1
9	Snowballed	Angus Young, Malcolm Young, Brian Johnson	1
10	Evil Walks	Angus Young, Malcolm Young, Brian Johnson	1
11	C.O.D.	Angus Young, Malcolm Young, Brian Johnson	1
12	Breaking The Rules	Angus Young, Malcolm Young, Brian Johnson	1
13	Night Of The Long Knives	Angus Young, Malcolm Young, Brian Johnson	1
14	Spellbound	Angus Young, Malcolm Young, Brian Johnson	1
15	Go Down	AC/DC	4
16	Dog Eat Dog	AC/DC	4
17	Let There Be Rock	AC/DC	4
18	Bad Boy Boogie	AC/DC	4
19	Problem Child	AC/DC	4
20	Overdose	AC/DC	4
21	Hell Ain't A Bad Place To Be	AC/DC	4
22	Whole Lotta Rosie	AC/DC	4
23	Walk On Water	Steven Tyler, Joe Perry, Jack Blades, Tommy Shaw	5
24	Love In An Elevator	Steven Tyler, Joe Perry	5
25	Rag Doll	Steven Tyler, Joe Perry, Jim Vallance, Holly Knight	5
26	What It Takes	Steven Tyler, Joe Perry, Desmond Child	5
27	Dude (Looks Like A Lady)	Steven Tyler, Joe Perry, Desmond Child	5
28	Janie's Got A Gun	Steven Tyler, Tom Hamilton	5
29	Cryin'	Steven Tyler, Joe Perry, Taylor Rhodes	5
30	Amazing	Steven Tyler, Richie Supa	5
31	Blind Man	Steven Tyler, Joe Perry, Taylor Rhodes	5
32	Deuces Are Wild	Steven Tyler, Jim Vallance	5
33	The Other Side	Steven Tyler, Jim Vallance	5
34	Crazy	Steven Tyler, Joe Perry, Desmond Child	5
35	Eat The Rich	Steven Tyler, Joe Perry, Jim Vallance	5
36	Angel	Steven Tyler, Desmond Child	5
37	Livin' On The Edge	Steven Tyler, Joe Perry, Mark Hudson	5
38	All I Really Want	Alanis Morissette & Glenn Ballard	6
39	You Oughtta Know	Alanis Morissette & Glenn Ballard	6

```
-- Task 3-2
SELECT *
FROM albums
JOIN tracks
ON albums.AlbumId = tracks.AlbumId
WHERE tracks.AlbumId > 5
GROUP BY albums.AlbumId
ORDER BY albums.AlbumId DESC;
```

Total rows loaded: 342											
AlbumId	Title	ArtistId	TrackId	Name	AlbumId-1	Media Type	GenreId	Composer	Milliseconds	Bytes	UnitPrice
347	Kyuanigatsi (Soundtrack from the Motion Picture)	275	3503	Kyuanigatsi	347	2	10	Philip Glass	200005	3305164	0.99
348	Mozart: Chamber Music	274	3502	Quintet for Horn, Violin, 2 Violas, and Cello in E Flat Major, K. 407/386c: II. Allegro	348	2	24	Wolfgang Amadeus Mozart	221331	3665114	0.99
349	Monteverdi: L'Orfeo	273	3501	L'Orfeo, Act 3, Sinfonia (Orchestra)	349	2	24	Claudio Monteverdi	66639	1189062	0.99
350	Schubert: The Late String Quartets & String Quintet (3 CD's)	272	3500	String Quartet No. 12 in C Minor, D. 703 "Quartettstz": II. Andante - Allegro assai	344	2	24	Franz Schubert	139200	2283131	0.99
351	Respighi:Pines of Rome	226	3499	Pini Di Roma (Pines from Rom) / I Pini Della Via Appia	343	2	24	NULL	286741	4718950	0.99
352	Locatelli: Concertos for Violin, Strings and Continuo, Vol. 3	271	3498	Concerto for Violin, Strings and Continuo in G Major, Op. 3, No. 9: I. Allegro	342	4	24	Pietro Antonio Locatelli	493573	16454937	0.99
353	Great Recordings of the Century - Schubert: Schwanengesang, 4 Lieder	270	3497	Erlking, D.328	341	2	24	NULL	261849	4307907	0.99
354	List - 12 Etudes D'Execution Transcendante	269	3496	Etude 1, In C Major - Prelude (Presto) - List	340	4	24	NULL	51780	2229617	0.99
359	Great Recordings of the Century: Paganini's 24 Caprices	268	3495	24 Caprices, Op. 1, No. 24, for Solo Violin, in A Minor	339	2	24	Niccolò Paganini	265541	4371533	0.99
363	Nielsen: The Six Symphonies	267	3494	Symphony No. 2, Op. 16 - "The Four Temperaments": II. Allegro Con moto e Flegmatico	338	2	24	Carl Nielsen	236998	4834785	0.99
367	Szymanowski: Piano Works, Vol. 1	266	3493	Metopes, Op. 29: Calypso	337	2	24	Karol Szymanowski	333669	5548755	0.99
368	Prokofiev: Symphony No. 5 & Stravinsky: Le Sacre Du Printemps	248	3491	Le Sacre Du Printemps: I.iv. Spring Rounds	336	2	24	Igor Stravinsky	234746	4072205	0.99
369	J.S. Bach: Chaconne, Suite in E Minor, Partita in E Major & Prelude, Fugue and Allegro	265	3490	Partita in E Major, BWV 1006a: I. Prelude	335	2	24	Johann Sebastian Bach	285673	4744929	0.99
374	Wells: The Seven Deadly Sins	264	3489	Symphony No. 2: II. Allegro vivace	334	2	24	Kurt Weill	376510	6129146	0.99
383	Purcell: Music for the Queen Mary	263	3488	Music for the Funeral of Queen Mary VI, "Thou Knowest, Lord, the Secrets of Our Hearts"	333	2	24	Henry Purcell	142081	2368330	0.99
385	The Ultimate Relaxation Album	262	3487	3 Symphonies: No.1 - Lent Et Grave, No.3 - Lent Et Douloureux	332	2	24	Erik Satie	385556	6455501	0.99
387	Purcell: The Fairy Queen	261	3486	Act IV, Symphony	331	2	24	Henry Purcell	364296	5987695	0.99
390	Górecki: Symphony No. 3	260	3485	Symphony No. 3 Op. 36 for Orchestra and Soprano "Symfonia Pieśni Zalsorych" \ Lento E Largo - Tranqui	330	2	24	Henryk Górecki	567484	9273123	0.99
393	South American Getaway	259	3484	Adios nonino	329	2	24	Astor Piazzolla	289388	4781384	0.99
398	Chapman: Diversions, Airs & Concerts	258	3483	Concert pour 4 Parties de V°me, H. 345: I. Prelude	328	2	24	Marc-Antoine Charpentier	110266	1972559	0.99
401	Bach: Orchestral Suites Nos. 1 - 4	257	3482	Suite No. 3 in D, BWV 1069: III. Gavotte I & II	327	2	24	Johann Sebastian Bach	225933	3847164	0.99
402	Mendelssohn: A Midsummer Night's Dream	256	3481	A Midsummer Night's Dream, Op.61: Incidental Music: No.7: Nocturno	326	2	24	NULL	387826	4947867	0.99
403	Bartók: Violin & Viola Concertos	255	3480	Sonata for Solo Violin: IV. Presto	325	4	24	Béla Bartók	299530	5975346	0.99
404	Beethoven: Symphony No. 6 "Pastoral" Etc.	254	3479	Prometheus Overture, Op. 43	324	4	24	Ludwig van Beethoven	339567	10887931	0.99
405	Carried to Dust (Bonus Track Version)	253	3478	Slowness	323	2	23	NULL	215386	3644793	0.99
406	Frank	252	3487	Intro / Stronger Than Me	322	2	9	NULL	234200	3821165	0.99
407	Back to Black	252	3455	Relish	321	2	14	NULL	213240	3416678	0.99
408	Mozart: Symphonies Nos. 40 & 41	248	3454	Symphony No. 41 in C Major, K. 551, "Jupiter": IV. Molto allegro	320	2	24	Wolfgang Amadeus Mozart	362933	6173269	0.99
409	Armada: Music from the Courts of England and Spain	251	3453	Pavane, Lechrimae Antiquae	319	2	24	John Dowland	252821	4211495	0.99
410	SCRIABIN: Vers la Flamme	230	3452	SCRIABIN: Prelude in B Major, Op. 11, No. 11	318	4	24	NULL	101293	3819535	0.99
411	Mozart: Solo Famous Arias	249	3451	Die Zauberflöte, K.620: "Der Hölle Rache Kocht in Meinem Herze"	317	2	23	Wolfgang Amadeus Mozart	174813	2861468	0.99
412	Grieg: Peer Gynt Suites & Sibelius: Pellaea et Melisande	248	3450	Peer Gynt Suite No.1, Op.46: 1. Morning Mood	316	2	24	Edvard Grieg	253422	4289769	0.99
413	Handel: Music for the Royal Fireworks (Original Version 1749)	248	3449	Music for the Royal Fireworks, HWV551 (1749): La Représentance	315	2	24	George Frideric Handel	120000	2193734	0.99
414	English Renaissance	247	3448	Lamentations of Jeremiah, First Set: Incipit Lamentatio	314	2	24	Thomas Tallis	69194	1200000	0.99
415	Bizet: Carmen Highlights	246	3447	Carmen: Overture	313	2	24	Georges Bizet	132932	2189002	0.99
416	Berlioz: Symphonie Fantastique	245	3446	Symphonie Fantastique, Op. 14: V. Songe d'une nuit du sabbat	312	2	24	Hector Berlioz	561667	9173344	0.99
417	Strauss: Waltzes	226	3445	On the Beautiful Blue Danube	311	2	24	Johann Strauss II	526696	8610225	0.99
418	Prokofiev: Romeo & Juliet	245	3444	Romeo et Juliette: No. 11 - Danse des Chevaliers	310	2	24	NULL	275015	4518239	0.99
419	Palestrina: Missa Panna Marcelli & Allevati: Missae	244	3443	Missa Panna Marcelli: Kyrie	309	2	24	Giovanni Pierluigi da Palestrina	349666	4344145	0.99