

# MySQL Assignment-3

1. Write a query to retrieve the product details for order 10103.

```
mysql> use gradious;
Database changed
mysql> select ps.* from products ps inner join orderdetails ods
-> on ps.productCode = ods.productCode where orderNumber = 10103;
```

productCode	productName	productLine	productScale	productVendor	productDescription	quantityInStock	buyPrice	MSRP
S10_1949	1952 Alpine Renault 1300	Classic Cars	1:10	Classic Metal Creations	Turnable front wheels; steering function; detailed interior; detailed engine; opening hood; opening trunk; opening doors; and detailed chassis.	7305	98.58	214.30
S10_4962	1962 Lancia Delta 16V	Classic Cars	1:10	Second Gear Diecast	Features include: Turnable front wheels; steering function; detailed interior; detailed engine; opening hood; opening trunk; opening doors; and detailed chassis.	6791	103.42	147.74
S12_1666	1958 Setra Bus	Trucks and Buses	1:12	Welly Diecast Productions	Model features 30 windows, skylights & glare resistant glass, working steering system, original logos	1579	77.90	136.67
S18_1097	1940 Ford Pickup Truck	Trucks and Buses	1:18	Studio M Art Models	This model features soft rubber tires, working steering, rubber mud guards, authentic Ford logos, detailed undercarriage, opening doors and hood, removable split rear gate, full size spare mounted in bed, detailed interior with opening glove box	2613	58.33	116.67
S18_2432	1926 Ford Fire Engine	Trucks and Buses	1:18	Carousel DieCast Legends	Gleaming red handsome appearance. Everything is here the fire hoses, ladder, axes, bells, lanterns, ready to fight any inferno.	2018	24.92	60.77
S18_2989	1913 Ford Model T Speedster	Vintage Cars	1:18	Carousel DieCast Legends	This 250 part reproduction includes moving handbrakes, clutch, throttle and foot pedals, squeezable horn, detailed wired engine, removable water, gas, and oil cans, pivoting monocle windshield, all topped with a baked enamel red finish. Each replica comes with an Owners Title and Certificate of Authenticity. Color red.	4189	60.70	101.31
S18_2957	1934 Ford V8 Coupe	Vintage Cars	1:18	Min Lin Diecast				
S18_3136	18th Century Vintage Horse Carriage	Vintage Cars	1:18	Red Start Diecast	Hand crafted diecast-like metal horse carriage is re-created in about 1:18 scale of antique horse carriage. This antique style metal Stagecoach is all hand-assembled with many different parts.	5992	60.74	104.72
S18_3320	1917 Maxwell Touring Car	Vintage Cars	1:18	Exoto Designs				
S18_4600	1940s Ford truck	Trucks and Buses	1:18	Motor City Art Classics	This 1940s Ford Pick-Up truck is re-created in			
S18_4600	1940s Ford truck	Trucks and Buses	1:18	Motor City Art Classics	This 1940s Ford Pick-Up truck is re-created in 1:18 scale of original 1940s Ford truck. This antique style metal 1940s Ford Flatbed truck is all hand-assembled. This collectible 1940's Pick-Up truck is painted in classic dark green color, and features rotating wheels.	3128	84.76	121.08
S18_4668	1939 Cadillac Limousine	Vintage Cars	1:18	Studio M Art Models	Features completely detailed interior including Velvet flocked drapes, deluxe wood grain floor, and a wood grain casket with separate chrome handles	6645	23.14	50.31
S24_2300	1962 Volkswagen Microbus	Trucks and Buses	1:24	Autoart Studio Design	This 1:18 scale die cast replica of the 1962 Microbus is loaded with features: A working steering system, opening front doors and tailgate, and famous two-tone factory baked enamel finish, are all topped off by the sliding, real fabric, sunroof.	2327	61.34	127.79
S24_4258	1936 Chrysler Airflow	Vintage Cars	1:24	Second Gear Diecast	Features opening trunk, working steering system. Color dark green.			
S32_1268	1980's GM Manhattan Express	Trucks and Buses	1:32	Motor City Art Classics	This 1980's era new look Manhattan express is still active, running from the Bronx to mid-town Manhattan. Has 35 opening windows and working lights. Needs a battery.	4710	57.46	97.39
S32_3522	1996 Peterbilt 379 Stake Bed with Outrigger	Trucks and Buses	1:32	Red Start Diecast	This model features, opening doors, detailed engine, working steering, tinted windows, detailed interior, die-struck logos, removable stakes operating outriggers, detachable second trailer, functioning 360-degree self loader, precision molded resin trailer and trim, baked enamel finish on cab	5099	53.93	96.31
S700_2824	1982 Camaro Z28	Classic Cars	1:18	Carousel DieCast Legends	Features include opening and closing doors. Color: White. Measures approximately 9 1/2" Long.	814	33.61	64.64

16 rows in set (0.00 sec)

2. Write a query to get the customer information for order 10127.

```
mysql> select cs.* from customers cs inner join orders os
-> on cs.customerNumber = os.customerNumber where orderNumber = 10127;
```

customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1	addressLine2	city	state	postalCode	country	salesRe
151	Muscle Machine Inc	Young	Jeff	2125557413	4092 Furth Circle	Suite 400	NYC	NY	10022	USA	

1 row in set (0.00 sec)

3. Write a query to retrieve the employee information for customer 166.

```
mysql> select es.* from employees es inner join customers cs
-> on cs.salesRepEmployeeNumber = es.employeeNumber where customerNumber = 166;
```

employeeNumber	lastName	firstName	extension	email	officeCode	reportsTo	jobTitle
1612	Marsh	Peter	x102	pmarsh@classicmodelcars.com	6	1088	Sales Rep

1 row in set (0.00 sec)

4. Write a query to get the official information for office code 4.

```
mysql> select * from offices where officeCode = 4;
```

officeCode	city	phone	addressLine1	addressLine2	state	country	postalCode	territory
4	Paris	+33 14 723 4404	43 Rue Jouffroy D'abbans	NULL	NULL	France	75017	EMEA

1 row in set (0.00 sec)

5. Write a query to retrieve the product line for each product in an order.

```
mysql> select ps.productCode, ods.orderNumber, ps.productLine from products ps  
-> inner join orderdetails ods on ps.productCode = ods.productCode;
```

productCode	orderNumber	productLine
S10_1949	10103	Classic Cars
S10_1949	10112	Classic Cars
S10_1949	10126	Classic Cars
S10_1949	10140	Classic Cars
S10_1949	10150	Classic Cars
S10_1949	10163	Classic Cars
S10_1949	10174	Classic Cars
S10_1949	10183	Classic Cars
S10_1949	10194	Classic Cars
S10_1949	10206	Classic Cars
S10_1949	10215	Classic Cars
S10_1949	10228	Classic Cars
S10_1949	10245	Classic Cars
S10_1949	10258	Classic Cars
S10_1949	10270	Classic Cars
S10_1949	10280	Classic Cars
S10_1949	10291	Classic Cars
S10_1949	10304	Classic Cars
S10_1949	10312	Classic Cars
S10_1949	10322	Classic Cars
S10_1949	10333	Classic Cars
S10_1949	10347	Classic Cars
S10_1949	10357	Classic Cars
S10_1949	10369	Classic Cars
S10_1949	10381	Classic Cars
S10_1949	10391	Classic Cars
S10_1949	10411	Classic Cars
S10_1949	10424	Classic Cars
S10_4757	10105	Classic Cars
S10_4757	10119	Classic Cars
S10_4757	10129	Classic Cars
S10_4757	10143	Classic Cars
S10_4757	10155	Classic Cars
S10_4757	10167	Classic Cars
S10_4757	10178	Classic Cars

S32_4289	10328	Vintage Cars
S32_4289	10340	Vintage Cars
S32_4289	10353	Vintage Cars
S32_4289	10361	Vintage Cars
S32_4289	10375	Vintage Cars
S32_4289	10388	Vintage Cars
S32_4289	10398	Vintage Cars
S32_4289	10401	Vintage Cars
S32_4289	10416	Vintage Cars
S50_1341	10106	Vintage Cars
S50_1341	10120	Vintage Cars
S50_1341	10133	Vintage Cars
S50_1341	10143	Vintage Cars
S50_1341	10156	Vintage Cars
S50_1341	10168	Vintage Cars
S50_1341	10179	Vintage Cars
S50_1341	10187	Vintage Cars
S50_1341	10199	Vintage Cars
S50_1341	10210	Vintage Cars
S50_1341	10223	Vintage Cars
S50_1341	10235	Vintage Cars
S50_1341	10250	Vintage Cars
S50_1341	10262	Vintage Cars
S50_1341	10275	Vintage Cars
S50_1341	10284	Vintage Cars
S50_1341	10296	Vintage Cars
S50_1341	10308	Vintage Cars
S50_1341	10316	Vintage Cars
S50_1341	10328	Vintage Cars
S50_1341	10340	Vintage Cars
S50_1341	10353	Vintage Cars
S50_1341	10361	Vintage Cars
S50_1341	10375	Vintage Cars
S50_1341	10388	Vintage Cars
S50_1341	10398	Vintage Cars
S50_1341	10401	Vintage Cars
S50_1341	10416	Vintage Cars
+-----+-----+-----+		
2996 rows in set (0.01 sec)		

6. Write a query to get the customer information and order status for all orders that contain products belonging to the 'Classic Cars' product line.

```
mysql> select cs.*, os.status from customers cs
-> inner join orders os on os.customerNumber = cs.customerNumber
-> inner join orderdetails ods on ods.orderNumber = os.orderNumber
-> inner join products ps on ps.productCode = ods.productCode
-> where ps.productLine = "Classic Cars";
```

customerNumber	customerName	city	state	postalCode	contactLastName	contactFirstName	phone	addressLine1	addressLine2
121	Baane Mini Imports	Stavern	NULL	4110	Bergulfsen	Jonas	07-98 9555	Erling Skakkes gate 78	NULL
144	Volvo Model Replicas, Co	LuleÅ	NULL	S-958 22	Berglund	Christina	0921-12 3555	BerguvsvÅngen 8	NULL
458	Corrida Auto Replicas, Ltd	Madrid	NULL	28023	Sommer	MartÅ-n	1504	53100.00	Shipped
161	Technics Stores Inc.	Burlingame	CA	94217	Hashimoto	Juri	(91) 555 22 82	C/ Araquil, 67	NULL
148	Dragon Souveniers, Ltd.	Singapore	NULL	079903	Natividad	Eric	6505556809	9808 Furth Circle	NULL
424	Classic Legends Inc.	NYC	NY	10022	Hernandez	Maria	1165	84600.00	Shipped
333	Australian Gift Network, Co	South Brisbane	Queensland	4101	Calaghan	Ben	+65 221 7555	Bronz Sok.	Bronz Apt. 3
339	Classic Gift Ideas, Inc	Philadelphia	PA	71270	Cervantes	Francisca	1621	103800.00	Shipped
146	Saveley & Henriot, Co.	Lyon	NULL	69004	Saveley	Mary	2125558493	5905 Pompton St.	Suite 750
282	Canadian Gift Exchange Network	Vancouver	BC	V3F 2K1	Tamuri	Yoshi	1286	67500.00	Shipped
475	West Coast Collectables Co.	Burbank	CA	94019	Thompson	Steve	61-7-3844-6555	31 Duncan St. West End	NULL
173	Cambridge Collectables Co.	Cambridge	MA	51247	Tseng	Jerry	1611	51600.00	Shipped
455	Super Scale Inc.	New Haven	CT	97823	Murphy	Leslie	2155554695	782 First Street	NULL
398	Tokyo Collectables, Ltd	Minato-ku	Tokyo	106-0032	Shinamura	Akiko	1188	81100.00	Shipped
282	Souveniers And Things Co.	Huxley	Adrian	+61 2 9495 8555	Monitor Money Building	815 Pacific	78.32.5555	2, rue du Commerce	NULL
							1337	123900.00	Shipped
							(604) 555-3392	1908 Oak St.	NULL
							1323	90300.00	Shipped
							3105553722	3675 Furth Circle	NULL
							1166	55400.00	Shipped
							6175555555	4658 Baden Av.	NULL
							1188	43400.00	Shipped
							2035559545	567 North Pendale Street	NULL
							1286	95400.00	Shipped
							+81 3 3584 0555	2-2-8 Roppongi	NULL
							1621	94400.00	Shipped
							+61 2 9495 8555	Monitor Money Building	815 Pacific

202	Canadian Gift Exchange Network	Vancouver	BC	V3F 2K1	Tamuri	Yoshi	(604) 555-3392	1908 Oak St.	NULL
166	Handji Gifts& Co	Singapore	NULL	069045	Victorino	Wendy	+65 224 1555	186 Linden Road Sandown	2nd Floor
124	Mini Gifts Distributors Ltd.	San Rafael	CA	97562	Nelson	Susan	4155551450	5677 Strong St.	NULL
455	Super Scale Inc.	New Haven	CT	97823	Murphy	Leslie	1165	210500.00	Shipped
398	Tokyo Collectables, Ltd	Minato-ku	Tokyo	106-0032	Shinamura	Akiko	2035559545	567 North Pendale Street	NULL
282	Souveniers And Things Co.	Huxley	Adrian	+61 2 9495 8555	Monitor Money Building	815 Pacific	1286	95400.00	Shipped
157	Diecast Classics Inc.	Allentown	PA	70267	Leong	Melvin	+81 3 3584 0555	2-2-8 Roppongi	NULL
448	Scandinavian Gift Ideas	BrÅncke	NULL	S-844 67	Larsson	Martha	1621	94400.00	Shipped
256	Auto AssociÅes & Cie.	Versailles	NULL	78000	Tonini	Daniel	+61 2 9495 8555	Monitor Money Building	815 Pacific
202	Canadian Gift Exchange Network	Vancouver	BC	V3F 2K1	Tamuri	Yoshi	1611	93300.00	Shipped
181	Vitachrome Inc.	NWC	NY	10022	Frick	Michael	2155551555	7586 Pompton St.	NULL
172	La Corne D'abondance, Co.	Paris	NULL	75012	Bertrand	Marie	1216	100600.00	Shipped
458	Corrida Auto Replicas, Ltd	Madrid	NULL	28023	Sommer	MartÅ-n	0695-34 6555	Å?kergatan 24	NULL
141	Euro+ Shopping Channel	Madrid	NULL	28034	Freyre	Diego	1504	116400.00	Shipped
124	Mini Gifts Distributors Ltd.	San Rafael	CA	97562	Nelson	Susan	30.59.8555	67, avenue de l'Europe	NULL
323	Down Under Souveniers, Inc	Auckland	NULL	1612	Graham	Mike	1370	77900.00	Shipped
233	QuÅbec Home Shopping Network	Montréal	QuÅbec	H1J 1C3	FresniÅ-re	Jean	(604) 555-3392	1908 Oak St.	NULL
141	Euro+ Shopping Channel	Madrid	NULL	28034	Freyre	Diego	1323	90300.00	Shipped
							1286	76400.00	Shipped
							(1) 42.34.2555	265, boulevard Charonne	NULL
							1377	84200.00	Shipped
							(91) 555 22 82	C/ Araquil, 67	NULL
							1702	104600.00	Shipped
							(91) 555 94 44	C/ Moralzazral, 86	NULL
							1370	227600.00	Shipped
							4155551450	5677 Strong St.	NULL
							1165	210500.00	Shipped
							4155551450	5677 Strong St.	NULL
							1165	210500.00	Shipped
							+64 9 312 5555	162-164 Grafton Road	Level 2
							1612	88000.00	Shipped
							(514) 555-8054	43 rue St. Laurent	NULL
							1286	48700.00	Shipped
							(91) 555 94 44	C/ Moralzazral, 86	NULL
							1370	227600.00	In Process

1010 rows in set (0.01 sec)

7. Write a query to retrieve the payment details and customer details of customer number 103.

```
mysql> select pys.*, cs.* from customers cs inner join payments pys
-> on pys.customerNumber = cs.customerNumber where cs.customerNumber = 103;
```

customerNumber	checkNumber	paymentDate	amount	customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1	addressLine2	city	state	postalCode	country	salesRepEmployeeNumber	creditLimit
103	HQ336336	2004-10-19	6066.78	103	Atelier graphique	Schmitt	Carine	40.32.2555	54, rue Roy		Nantes		44000	France	1370	21000.00
103	JM555205	2003-06-05	14571.44	103	Atelier graphique	Schmitt	Carine	40.32.2555	54, rue Roy		Nantes		44000	France	1370	21000.00
103	OM314933	2004-12-18	1676.14	103	Atelier graphique	Schmitt	Carine	40.32.2555	54, rue Roy		Nantes		44000	France	1370	21000.00

3 rows in set (0.00 sec)

8. Write a query to get the orders and their corresponding payments to the same customer.

```
mysql> select os.orderNumber, os.customerNumber, sum(pys.amount) from orders os
-> inner join payments pys on pys.customerNumber = os.customerNumber
-> group by os.orderNumber order by os.orderNumber;
```

orderNumber	customerNumber	sum(pys.amount)
10100	363	116449.29
10101	128	75937.76
10102	181	72497.64
10103	121	104224.79
10104	141	715738.98
10105	145	107446.50
10106	278	127529.69
10107	131	107639.94
10108	385	87468.30
10109	486	77726.59
10110	187	148410.09
10111	129	66710.56
10112	144	43680.65
10113	124	584188.24
10114	172	86553.52
10115	424	69214.33
10116	381	29217.18
10117	148	156251.03
10118	216	68520.47
10119	382	85060.00
10120	114	180585.07
10121	353	126983.19
10122	350	71547.53
10123	103	22314.36
10124	112	80180.98
10125	114	180585.07
10126	458	112440.09
10127	151	177913.95
10128	141	715738.98
10129	324	80556.73
10130	198	21554.26
10131	447	49967.78
10132	323	154622.08
10133	141	715738.98
10134	250	67659.19
10135	124	584188.24
10136	242	60483.36
10137	353	126983.19

10383	141	715738.98
10384	321	132340.78
10385	124	584188.24
10386	141	715738.98
10387	148	156251.03
10388	462	88627.49
10389	448	76776.44
10390	124	584188.24
10391	276	137034.22
10392	452	51059.99
10393	323	154622.08
10394	141	715738.98
10395	250	67659.19
10396	124	584188.24
10397	242	60483.36
10398	353	126983.19
10399	496	114497.19
10400	450	59551.38
10401	328	38281.51
10402	406	86436.97
10403	201	61167.18
10404	323	154622.08
10405	209	75859.32
10406	145	107446.50
10407	450	59551.38
10408	398	105548.73
10409	166	105420.57
10410	357	56662.38
10411	233	68977.67
10412	141	715738.98
10413	175	95424.63
10414	362	33533.47
10415	471	44920.76
10416	386	90143.31
10417	141	715738.98
10418	412	66704.94
10419	382	85060.00
10420	282	91655.61
10421	124	584188.24
10422	157	98509.25
10423	314	62253.85
10424	141	715738.98
10425	119	116949.68

326 rows in set (0.00 sec)

9. Write a query to retrieve the customers and their associated orders.

```
mysql> select cs.customerNumber, cs.customerName, os.orderNumber from customers cs
-> inner join orders os on os.customerNumber = cs.customerNumber;
```

customerNumber	customerName	orderNumber
103	Atelier graphique	10123
103	Atelier graphique	10298
103	Atelier graphique	10345
112	Signal Gift Stores	10124
112	Signal Gift Stores	10278
112	Signal Gift Stores	10346
114	Australian Collectors, Co.	10120
114	Australian Collectors, Co.	10125
114	Australian Collectors, Co.	10223
114	Australian Collectors, Co.	10342
114	Australian Collectors, Co.	10347
119	La Rochelle Gifts	10275
119	La Rochelle Gifts	10315
119	La Rochelle Gifts	10375
119	La Rochelle Gifts	10425
121	Baane Mini Imports	10103
121	Baane Mini Imports	10158
121	Baane Mini Imports	10309
121	Baane Mini Imports	10325
124	Mini Gifts Distributors Ltd.	10113
124	Mini Gifts Distributors Ltd.	10135
124	Mini Gifts Distributors Ltd.	10142
124	Mini Gifts Distributors Ltd.	10182
124	Mini Gifts Distributors Ltd.	10229
124	Mini Gifts Distributors Ltd.	10271
124	Mini Gifts Distributors Ltd.	10282
124	Mini Gifts Distributors Ltd.	10312
124	Mini Gifts Distributors Ltd.	10335
124	Mini Gifts Distributors Ltd.	10357
124	Mini Gifts Distributors Ltd.	10368
124	Mini Gifts Distributors Ltd.	10371
124	Mini Gifts Distributors Ltd.	10382
124	Mini Gifts Distributors Ltd.	10385
124	Mini Gifts Distributors Ltd.	10390
124	Mini Gifts Distributors Ltd.	10396
124	Mini Gifts Distributors Ltd.	10421
128	Blauer See Auto, Co.	10101
128	Blauer See Auto, Co.	10230
128	Blauer See Auto, Co.	10300
128	Blauer See Auto, Co.	10323



447	Gift Ideas Corp.	10353
448	Scandinavian Gift Ideas	10167
448	Scandinavian Gift Ideas	10291
448	Scandinavian Gift Ideas	10389
450	The Sharp Gifts Warehouse	10250
450	The Sharp Gifts Warehouse	10257
450	The Sharp Gifts Warehouse	10400
450	The Sharp Gifts Warehouse	10407
452	Mini Auto Werke	10164
452	Mini Auto Werke	10170
452	Mini Auto Werke	10392
455	Super Scale Inc.	10196
455	Super Scale Inc.	10245
456	Microscale Inc.	10242
456	Microscale Inc.	10319
458	Corrida Auto Replicas, Ltd	10126
458	Corrida Auto Replicas, Ltd	10214
458	Corrida Auto Replicas, Ltd	10348
462	FunGiftIdeas.com	10166
462	FunGiftIdeas.com	10321
462	FunGiftIdeas.com	10388
471	Australian Collectables, Ltd	10193
471	Australian Collectables, Ltd	10265
471	Australian Collectables, Ltd	10415
473	Frau da Collezione	10157
473	Frau da Collezione	10218
475	West Coast Collectables Co.	10199
475	West Coast Collectables Co.	10215
484	Iberia Gift Imports, Corp.	10184
484	Iberia Gift Imports, Corp.	10303
486	Motor Mint Distributors Inc.	10109
486	Motor Mint Distributors Inc.	10236
486	Motor Mint Distributors Inc.	10331
487	Signal Collectibles Ltd.	10149
487	Signal Collectibles Ltd.	10219
489	Double Decker Gift Stores, Ltd	10186
489	Double Decker Gift Stores, Ltd	10213
495	Diecast Collectables	10207
495	Diecast Collectables	10243
496	Kelly's Gift Shop	10138
496	Kelly's Gift Shop	10179
496	Kelly's Gift Shop	10360
496	Kelly's Gift Shop	10399

+-----+-----+-----+  
326 rows in set (0.00 sec)

10. Write a query to get the products and their corresponding product lines.

```
mysql> select productCode, productName, productLine
-> from products order by productLine;
```

productCode	productName	productLine
S10_1949	1952 Alpine Renault 1300	Classic Cars
S10_4757	1972 Alfa Romeo GTA	Classic Cars
S10_4962	1962 LanciaA Delta 16V	Classic Cars
S12_1099	1968 Ford Mustang	Classic Cars
S12_1108	2001 Ferrari Enzo	Classic Cars
S12_3148	1969 Corvair Monza	Classic Cars
S12_3380	1968 Dodge Charger	Classic Cars
S12_3891	1969 Ford Falcon	Classic Cars
S12_3990	1970 Plymouth Hemi Cuda	Classic Cars
S12_4675	1969 Dodge Charger	Classic Cars
S18_1129	1993 Mazda RX-7	Classic Cars
S18_1589	1965 Aston Martin DB5	Classic Cars
S18_1889	1948 Porsche 356-A Roadster	Classic Cars
S18_1984	1995 Honda Civic	Classic Cars
S18_2238	1998 Chrysler Plymouth Prowler	Classic Cars
S18_2870	1999 Indy 500 Monte Carlo SS	Classic Cars
S18_3232	1992 Ferrari 360 Spider red	Classic Cars
S18_3233	1985 Toyota Supra	Classic Cars
S18_3278	1969 Dodge Super Bee	Classic Cars
S18_3482	1976 Ford Gran Torino	Classic Cars
S18_3685	1948 Porsche Type 356 Roadster	Classic Cars
S18_4027	1970 Triumph Spitfire	Classic Cars
S18_4721	1957 Corvette Convertible	Classic Cars
S18_4933	1957 Ford Thunderbird	Classic Cars
S24_1046	1970 Chevy Chevelle SS 454	Classic Cars
S24_1444	1970 Dodge Coronet	Classic Cars
S24_1628	1966 Shelby Cobra 427 S/C	Classic Cars
S24_2766	1949 Jaguar XK 120	Classic Cars
S24_2840	1958 Chevy Corvette Limited Edition	Classic Cars
S24_2887	1952 Citroen-15CV	Classic Cars
S24_2972	1982 Lamborghini Diablo	Classic Cars
S24_3191	1969 Chevrolet Camaro Z28	Classic Cars
S24_3371	1971 Alpine Renault 1600s	Classic Cars
S24_3432	2002 Chevy Corvette	Classic Cars
S24_3856	1956 Porsche 356A Coupe	Classic Cars
S24_4048	1992 Porsche Cayenne Turbo Silver	Classic Cars
S24_4620	1961 Chevrolet Impala	Classic Cars
S700_2824	1982 Camaro Z28	Classic Cars
S10_1678	1969 Harley Davidson Ultimate Chopper	Motorcycles
S10_2016	1996 Moto Guzzi 1100i	Motorcycles

S700_2047	HMS Bounty	Ships
S700_2610	The USS Constitution Ship	Ships
S700_3505	The Titanic	Ships
S700_3962	The Queen Mary	Ships
S72_3212	Pont Yacht	Ships
S18_3259	Collectable Wooden Train	Trains
S32_3207	1950's Chicago Surface Lines Streetcar	Trains
S50_1514	1962 City of Detroit Streetcar	Trains
S12_1666	1958 Setra Bus	Trucks and Buses
S12_4473	1957 Chevy Pickup	Trucks and Buses
S18_1097	1940 Ford Pickup Truck	Trucks and Buses
S18_2319	1964 Mercedes Tour Bus	Trucks and Buses
S18_2432	1926 Ford Fire Engine	Trucks and Buses
S18_4600	1940s Ford truck	Trucks and Buses
S24_2300	1962 Volkswagen Microbus	Trucks and Buses
S32_1268	1980's GM Manhattan Express	Trucks and Buses
S32_2509	1954 Greyhound Scenicruiser	Trucks and Buses
S32_3522	1996 Peterbilt 379 Stake Bed with Outrigger	Trucks and Buses
S50_1392	Diamond T620 Semi-Skirted Tanker	Trucks and Buses
S18_1342	1937 Lincoln Berline	Vintage Cars
S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
S18_1749	1917 Grand Touring Sedan	Vintage Cars
S18_2248	1911 Ford Town Car	Vintage Cars
S18_2325	1932 Model A Ford J-Coupe	Vintage Cars
S18_2795	1928 Mercedes-Benz SSK	Vintage Cars
S18_2949	1913 Ford Model T Speedster	Vintage Cars
S18_2957	1934 Ford V8 Coupe	Vintage Cars
S18_3136	18th Century Vintage Horse Carriage	Vintage Cars
S18_3140	1903 Ford Model A	Vintage Cars
S18_3320	1917 Maxwell Touring Car	Vintage Cars
S18_3856	1941 Chevrolet Special Deluxe Cabriolet	Vintage Cars
S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	Vintage Cars
S18_4522	1904 Buick Runabout	Vintage Cars
S18_4668	1939 Cadillac Limousine	Vintage Cars
S24_1937	1939 Chevrolet Deluxe Coupe	Vintage Cars
S24_2022	1938 Cadillac V-16 Presidential Limousine	Vintage Cars
S24_3151	1912 Ford Model T Delivery Wagon	Vintage Cars
S24_3420	1937 Horch 930V Limousine	Vintage Cars
S24_3816	1940 Ford Delivery Sedan	Vintage Cars
S24_3969	1936 Mercedes Benz 500k Roadster	Vintage Cars
S24_4258	1936 Chrysler Airflow	Vintage Cars
S32_4289	1928 Ford Phaeton Deluxe	Vintage Cars
S50_1341	1930 Buick Marquette Phaeton	Vintage Cars

110 rows in set (0.00 sec)

## 11. Write a query to retrieve the employees and their respective managers.

```
mysql> select es.employeeNumber, concat(es.firstName, ' ', es.lastName) as employeeName, es.reportsTo as managerNumber,
-> (select concat(e.firstName, ' ', e.lastName) from employees e where es.reportsTo = e.employeeNumber) as managerName
-> from employees es;
```

employeeNumber	employeeName	managerNumber	managerName
1002	Diane Murphy	NULL	NULL
1056	Mary Patterson	1002	Diane Murphy
1076	Jeff Firrelli	1002	Diane Murphy
1088	William Patterson	1056	Mary Patterson
1102	Gerard Bondur	1056	Mary Patterson
1143	Anthony Bow	1056	Mary Patterson
1165	Leslie Jennings	1143	Anthony Bow
1166	Leslie Thompson	1143	Anthony Bow
1188	Julie Firrelli	1143	Anthony Bow
1216	Steve Patterson	1143	Anthony Bow
1286	Foon Yue Tseng	1143	Anthony Bow
1323	George Vanauf	1143	Anthony Bow
1337	Loui Bondur	1102	Gerard Bondur
1370	Gerard Hernandez	1102	Gerard Bondur
1401	Pamela Castillo	1102	Gerard Bondur
1501	Larry Bott	1102	Gerard Bondur
1504	Barry Jones	1102	Gerard Bondur
1611	Andy Fixter	1088	William Patterson
1612	Peter Marsh	1088	William Patterson
1619	Tom King	1088	William Patterson
1621	Mami Nishi	1056	Mary Patterson
1625	Yoshimi Kato	1621	Mami Nishi
1702	Martin Gerard	1102	Gerard Bondur

23 rows in set (0.00 sec)

## 12. Write a query to retrieve the customers, their orders, and the corresponding product details.

```
MySQL 8.0 Command Line Cli x + v
mysql> select cs.customerNumber, cs.customerName, os.orderNumber, ps.* from customers cs
-> inner join orders os on os.customerNumber = cs.customerNumber
-> inner join orderdetails ods on ods.orderNumber = os.orderNumber
-> inner join products ps on ps.productCode = ods.productCode;

+-----+-----+-----+-----+-----+-----+-----+-----+
| customerNumber | customerName | orderNumber | productCode | productName | productLine | productScale | produc |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 103 | Atelier graphique | 10123 | S18_1589 | 1965 Aston Martin DB5 | Classic Cars | 1:18 | Classi |
| 103 | Atelier graphique | 10123 | S18_2870 | 1999 Indy 500 Monte Carlo SS | Classic Cars | 1:18 | Red St |
| 103 | Atelier graphique | 10123 | S18_3685 | 1948 Porsche Type 356 Roadster | Classic Cars | 1:18 | Gearbo |
| 103 | Atelier graphique | 10123 | S24_1628 | 1966 Shelby Cobra 427 S/C | Classic Cars | 1:24 | Carous |
| 103 | Atelier graphique | 10298 | S10_2016 | 1996 Moto Guzzi 1100i | Motorcycles | 1:10 | Highwa |
| 103 | Atelier graphique | 10298 | S18_2625 | 1936 Harley Davidson El Knucklehead | Motorcycles | 1:18 | Welly |
+-----+-----+-----+-----+-----+-----+-----+-----+
2996 rows in set (0.02 sec)
```

```
MySQL 8.0 Command Line Cli x + v
mysql> select cs.customerNumber, cs.customerName, os.orderNumber, ps.* from customers cs
-> inner join orders os on os.customerNumber = cs.customerNumber
-> inner join orderdetails ods on ods.orderNumber = os.orderNumber
-> inner join products ps on ps.productCode = ods.productCode;

+-----+-----+-----+-----+-----+-----+-----+-----+
| customerNumber | customerName | orderNumber | productCode | productName | productLine | productScale | produc |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 103 | Atelier graphique | 10123 | S18_1589 | 1965 Aston Martin DB5 | Classic Cars | 1:18 | Classi |
| 103 | Atelier graphique | 10123 | S18_2870 | 1999 Indy 500 Monte Carlo SS | Classic Cars | 1:18 | Red St |
| 103 | Atelier graphique | 10123 | S18_3685 | 1948 Porsche Type 356 Roadster | Classic Cars | 1:18 | Gearbo |
| 103 | Atelier graphique | 10123 | S24_1628 | 1966 Shelby Cobra 427 S/C | Classic Cars | 1:24 | Carous |
| 103 | Atelier graphique | 10298 | S10_2016 | 1996 Moto Guzzi 1100i | Motorcycles | 1:10 | Highwa |
| 103 | Atelier graphique | 10298 | S18_2625 | 1936 Harley Davidson El Knucklehead | Motorcycles | 1:18 | Welly |
+-----+-----+-----+-----+-----+-----+-----+-----+
2996 rows in set (0.02 sec)
```

# 13. Write a query to get the payment details, order details, and the associated products.

```
mysql> select ps.productCode, ps.productName, os.orderNumber, pys.* from products ps
-> inner join orderdetails ods on ods.productCode = ps.productCode
-> inner join orders os on os.orderNumber = ods.orderNumber
-> inner join payments pys on pys.customerNumber = os.customerNumber;
```

productCode	productName	orderNumber	customerNumber	checkNumber	paymentDate	amount
S18_1589	1965 Aston Martin DB5	10123	103	HQ336336	2004-10-19	6066.78
S18_2870	1999 Indy 500 Monte Carlo SS	10123	103	HQ336336	2004-10-19	6066.78
S18_3685	1948 Porsche Type 356 Roadster	10123	103	HQ336336	2004-10-19	6066.78
S24_1628	1966 Shelby Cobra 427 S/C	10123	103	HQ336336	2004-10-19	6066.78
S18_1589	1965 Aston Martin DB5	10123	103	JM555205	2003-06-05	14571.44
S18_2870	1999 Indy 500 Monte Carlo SS	10123	103	JM555205	2003-06-05	14571.44
S18_3685	1948 Porsche Type 356 Roadster	10123	103	JM555205	2003-06-05	14571.44
S24_1628	1966 Shelby Cobra 427 S/C	10123	103	JM555205	2003-06-05	14571.44
S18_1589	1965 Aston Martin DB5	10123	103	OM314933	2004-12-18	1676.14
S18_2870	1999 Indy 500 Monte Carlo SS	10123	103	OM314933	2004-12-18	1676.14
S18_3685	1948 Porsche Type 356 Roadster	10123	103	OM314933	2004-12-18	1676.14
S24_1628	1966 Shelby Cobra 427 S/C	10123	103	OM314933	2004-12-18	1676.14
S10_2016	1996 Moto Guzzi 1100i	10298	103	HQ336336	2004-10-19	6066.78
S18_2625	1936 Harley Davidson EL Knucklehead	10298	103	HQ336336	2004-10-19	6066.78
S10_2016	1996 Moto Guzzi 1100i	10298	103	JM555205	2003-06-05	14571.44
S18_2625	1936 Harley Davidson EL Knucklehead	10298	103	JM555205	2003-06-05	14571.44
S10_2016	1996 Moto Guzzi 1100i	10298	103	OM314933	2004-12-18	1676.14
S18_2625	1936 Harley Davidson EL Knucklehead	10298	103	OM314933	2004-12-18	1676.14
S24_2022	1938 Cadillac V-16 Presidential Limousine	10345	103	HQ336336	2004-10-19	6066.78
S24_2022	1938 Cadillac V-16 Presidential Limousine	10345	103	JM555205	2003-06-05	14571.44
S24_2022	1938 Cadillac V-16 Presidential Limousine	10345	103	OM314933	2004-12-18	1676.14
S18_1749	1917 Grand Touring Sedan	10124	112	B0864823	2004-12-17	14191.12
S18_2248	1911 Ford Town Car	10124	112	B0864823	2004-12-17	14191.12
S18_2325	1932 Model A Ford J-Coupe	10124	112	B0864823	2004-12-17	14191.12
S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	10124	112	B0864823	2004-12-17	14191.12
S18_4933	1957 Ford Thunderbird	10124	112	B0864823	2004-12-17	14191.12
S24_1046	1970 Chevy Chevelle SS 454	10124	112	B0864823	2004-12-17	14191.12
S24_1937	1939 Chevrolet Deluxe Coupe	10124	112	B0864823	2004-12-17	14191.12
S24_2022	1938 Cadillac V-16 Presidential Limousine	10124	112	B0864823	2004-12-17	14191.12
S24_2766	1949 Jaguar XK 120	10124	112	B0864823	2004-12-17	14191.12
S24_2887	1952 Citroen-15CV	10124	112	B0864823	2004-12-17	14191.12
S24_3191	1969 Chevrolet Camaro Z28	10124	112	B0864823	2004-12-17	14191.12
S24_3432	2002 Chevy Corvette	10124	112	B0864823	2004-12-17	14191.12
S24_3969	1936 Mercedes Benz 500K Roadster	10124	112	B0864823	2004-12-17	14191.12
S18_1749	1917 Grand Touring Sedan	10124	112	HQ55022	2003-06-06	32641.98
S18_2248	1911 Ford Town Car	10124	112	HQ55022	2003-06-06	32641.98
S18_2325	1932 Model A Ford J-Coupe	10124	112	HQ55022	2003-06-06	32641.98
S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	10124	112	HQ55022	2003-06-06	32641.98

S24_1628	1966 Shelby Cobra 427 S/C	10379	141	ID10962	2004-12-31	116208.40
S18_1749	1917 Grand Touring Sedan	10379	141	IN446258	2005-03-25	65071.26
S18_2248	1911 Ford Town Car	10379	141	IN446258	2005-03-25	65071.26
S18_2870	1999 Indy 500 Monte Carlo SS	10379	141	IN446258	2005-03-25	65071.26
S18_3685	1948 Porsche Type 356 Roadster	10379	141	IN446258	2005-03-25	65071.26
S24_1628	1966 Shelby Cobra 427 S/C	10379	141	IN446258	2005-03-25	65071.26
S18_1749	1917 Grand Touring Sedan	10379	141	JE105477	2005-03-18	120166.58
S18_2248	1911 Ford Town Car	10379	141	JE105477	2005-03-18	120166.58
S18_2870	1999 Indy 500 Monte Carlo SS	10379	141	JE105477	2005-03-18	120166.58
S18_3685	1948 Porsche Type 356 Roadster	10379	141	JE105477	2005-03-18	120166.58
S24_1628	1966 Shelby Cobra 427 S/C	10379	141	JE105477	2005-03-18	120166.58
S18_1749	1917 Grand Touring Sedan	10379	141	JN355280	2003-10-26	49539.37
S18_2248	1911 Ford Town Car	10379	141	JN355280	2003-10-26	49539.37
S18_2870	1999 Indy 500 Monte Carlo SS	10379	141	JN355280	2003-10-26	49539.37
S18_3685	1948 Porsche Type 356 Roadster	10379	141	JN355280	2003-10-26	49539.37
S24_1628	1966 Shelby Cobra 427 S/C	10379	141	JN355280	2003-10-26	49539.37
S18_1749	1917 Grand Touring Sedan	10379	141	JN722010	2003-02-25	40206.20
S18_2248	1911 Ford Town Car	10379	141	JN722010	2003-02-25	40206.20
S18_2870	1999 Indy 500 Monte Carlo SS	10379	141	JN722010	2003-02-25	40206.20
S18_3685	1948 Porsche Type 356 Roadster	10379	141	JN722010	2003-02-25	40206.20
S24_1628	1966 Shelby Cobra 427 S/C	10379	141	JN722010	2003-02-25	40206.20
S18_1749	1917 Grand Touring Sedan	10379	141	KT52578	2003-12-09	63843.55
S18_2248	1911 Ford Town Car	10379	141	KT52578	2003-12-09	63843.55
S18_2870	1999 Indy 500 Monte Carlo SS	10379	141	KT52578	2003-12-09	63843.55
S18_3685	1948 Porsche Type 356 Roadster	10379	141	KT52578	2003-12-09	63843.55
S24_1628	1966 Shelby Cobra 427 S/C	10379	141	KT52578	2003-12-09	63843.55
S18_1749	1917 Grand Touring Sedan	10379	141	MC46946	2004-07-09	35420.74
S18_2248	1911 Ford Town Car	10379	141	MC46946	2004-07-09	35420.74
S18_2870	1999 Indy 500 Monte Carlo SS	10379	141	MC46946	2004-07-09	35420.74
S18_3685	1948 Porsche Type 356 Roadster	10379	141	MC46946	2004-07-09	35420.74
S24_1628	1966 Shelby Cobra 427 S/C	10379	141	MC46946	2004-07-09	35420.74
S18_1749	1917 Grand Touring Sedan	10379	141	MF629602	2004-08-16	20009.53
S18_2248	1911 Ford Town Car	10379	141	MF629602	2004-08-16	20009.53
S18_2870	1999 Indy 500 Monte Carlo SS	10379	141	MF629602	2004-08-16	20009.53
S18_3685	1948 Porsche Type 356 Roadster	10379	141	MF629602	2004-08-16	20009.53
S24_1628	1966 Shelby Cobra 427 S/C	10379	141	MF629602	2004-08-16	20009.53
S18_1749	1917 Grand Touring Sedan	10379	141	NU627706	2004-05-17	26155.91
S18_2248	1911 Ford Town Car	10379	141	NU627706	2004-05-17	26155.91
S18_2870	1999 Indy 500 Monte Carlo SS	10379	141	NU627706	2004-05-17	26155.91
S18_3685	1948 Porsche Type 356 Roadster	10379	141	NU627706	2004-05-17	26155.91
S24_1628	1966 Shelby Cobra 427 S/C	10379	141	NU627706	2004-05-17	26155.91
S18_1342	1937 Lincoln Berline	10380	141	AU3	-- query aborted	

364101 | 2003-07-19 | 36251.03 |

12015 rows in set (0.05 sec)

14. Write a query to retrieve the payment details and the customer information for the check number - JM555205.

```
mysql> select cs.customerNumber, cs.customerName, pys.* from customers cs
      -> inner join payments pys on pys.customerNumber = cs.customerNumber
      -> where pys.checkNumber = "JM555205";
```

customerNumber	customerName	customerNumber	checkNumber	paymentDate	amount
103	Atelier graphique	103	JM555205	2003-06-05	14571.44

1 row in set (0.00 sec)

15. Write a query to retrieve the orders and their corresponding customer and employee information for a canceled status.

```
mysql> select cs.customerNumber, cs.customerName, os.orderNumber, es.employeeNumber from customers cs
      -> inner join orders os on os.customerNumber = cs.customerNumber
      -> inner join employees es on cs.salesRepEmployeeNumber = es.employeeNumber
      -> where os.status = "Cancelled" order by customerNumber;
```

customerNumber	customerName	orderNumber	employeeNumber
131	Land of Toys Inc.	10248	1323
141	Euro+ Shopping Channel	10262	1370
201	UK Collectables, Ltd.	10253	1501
357	GiftsForHim.com	10260	1612
448	Scandinavian Gift Ideas	10167	1504
496	Kelly's Gift Shop	10179	1612

6 rows in set (0.00 sec)

16. Write a query to get the payments, order details, and associated product information for the payment date - 2004-12-17.

```
mysql> select os.orderNumber, ps.productCode, ps.productName, pys.* from orders os
-> inner join payments pys on pys.customerNumber = os.customerNumber
-> inner join orderdetails ods on ods.orderNumber = os.orderNumber
-> inner join products ps on ps.productCode = ods.productCode
-> where pys.paymentDate = "2004-12-17";
```

orderNumber	productCode	productName	customerNumber	checkNumber	paymentDate	amount
10124	S18_1749	1917 Grand Touring Sedan	112	B0864823	2004-12-17	14191.12
10124	S18_2248	1911 Ford Town Car	112	B0864823	2004-12-17	14191.12
10124	S18_2325	1932 Model A Ford J-Coupe	112	B0864823	2004-12-17	14191.12
10124	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	112	B0864823	2004-12-17	14191.12
10124	S18_4933	1957 Ford Thunderbird	112	B0864823	2004-12-17	14191.12
10124	S24_1046	1970 Chevy Chevelle SS 454	112	B0864823	2004-12-17	14191.12
10124	S24_1937	1939 Chevrolet Deluxe Coupe	112	B0864823	2004-12-17	14191.12
10124	S24_2022	1938 Cadillac V-16 Presidential Limousine	112	B0864823	2004-12-17	14191.12
10124	S24_2766	1949 Jaguar XK 120	112	B0864823	2004-12-17	14191.12
10124	S24_2887	1952 Citroen-15CV	112	B0864823	2004-12-17	14191.12
10124	S24_3191	1969 Chevrolet Camaro Z28	112	B0864823	2004-12-17	14191.12
10124	S24_3432	2002 Chevy Corvette	112	B0864823	2004-12-17	14191.12
10124	S24_3969	1936 Mercedes Benz 500k Roadster	112	B0864823	2004-12-17	14191.12
10278	S18_1129	1993 Mazda RX-7	112	B0864823	2004-12-17	14191.12
10278	S18_1589	1965 Aston Martin DB5	112	B0864823	2004-12-17	14191.12
10278	S18_1889	1948 Porsche 356-A Roadster	112	B0864823	2004-12-17	14191.12
10278	S18_1984	1995 Honda Civic	112	B0864823	2004-12-17	14191.12
10278	S18_2870	1999 Indy 500 Monte Carlo SS	112	B0864823	2004-12-17	14191.12
10278	S18_3232	1992 Ferrari 360 Spider red	112	B0864823	2004-12-17	14191.12
10278	S18_3685	1948 Porsche Type 356 Roadster	112	B0864823	2004-12-17	14191.12
10278	S24_1628	1966 Shelby Cobra 427 S/C	112	B0864823	2004-12-17	14191.12
10278	S24_2972	1982 Lamborghini Diablo	112	B0864823	2004-12-17	14191.12
10278	S24_3856	1956 Porsche 356A Coupe	112	B0864823	2004-12-17	14191.12
10346	S18_1342	1937 Lincoln Berline	112	B0864823	2004-12-17	14191.12
10346	S24_2766	1949 Jaguar XK 120	112	B0864823	2004-12-17	14191.12
10346	S24_2887	1952 Citroen-15CV	112	B0864823	2004-12-17	14191.12
10346	S24_3191	1969 Chevrolet Camaro Z28	112	B0864823	2004-12-17	14191.12
10346	S24_3432	2002 Chevy Corvette	112	B0864823	2004-12-17	14191.12
10346	S24_3969	1936 Mercedes Benz 500k Roadster	112	B0864823	2004-12-17	14191.12
10131	S18_1662	1980s Black Hawk Helicopter	447	OU516561	2004-12-17	26304.13
10131	S24_2841	1900s Vintage Bi-Plane	447	OU516561	2004-12-17	26304.13
10131	S24_3420	1937 Horch 930V Limousine	447	OU516561	2004-12-17	26304.13
10131	S24_3949	Corsair F4U ( Bird Cage)	447	OU516561	2004-12-17	26304.13
10131	S700_2047	HMS Bounty	447	OU516561	2004-12-17	26304.13
10131	S700_2466	America West Airlines B757-200	447	OU516561	2004-12-17	26304.13
10131	S700_4002	American Airlines: MD-11S	447	OU516561	2004-12-17	26304.13
10131	S72_1253	Boeing X-32A JSF	447	OU516561	2004-12-17	26304.13
10146	S18_3782	1957 Vespa GS150	447	OU516561	2004-12-17	26304.13
10146	S18_4721	1957 Corvette Convertible	447	OU516561	2004-12-17	26304.13
10353	S18_2581	P-51-D Mustang	447	OU516561	2004-12-17	26304.13
10353	S24_1785	1928 British Royal Navy Airplane	447	OU516561	2004-12-17	26304.13
10353	S24_4278	1900s Vintage Tri-Plane	447	OU516561	2004-12-17	26304.13
10353	S32_1374	1997 BMW F650 ST	447	OU516561	2004-12-17	26304.13
10353	S32_4289	1928 Ford Phaeton Deluxe	447	OU516561	2004-12-17	26304.13
10353	S50_1341	1930 Buick Marquette Phaeton	447	OU516561	2004-12-17	26304.13
10353	S700_1691	American Airlines: B767-300	447	OU516561	2004-12-17	26304.13
10353	S700_2834	ATA: B757-300	447	OU516561	2004-12-17	26304.13
10353	S700_3167	F/A 18 Hornet 1/72	447	OU516561	2004-12-17	26304.13

48 rows in set (0.00 sec)



17. Write a query to retrieve the products, order details, and corresponding customer information for customer 112.

```
mysql> select ps.productCode, ps.productName, ods.orderNumber, cs.customerNumber, cs.customerName from products ps
-> inner join orderdetails ods on ods.productCode = ps.productCode
-> inner join orders os on os.orderNumber = ods.orderNumber
-> inner join customers cs on cs.customerNumber = os.customerNumber
-> where cs.customerNumber = 112;
```

productCode	productName	orderNumber	customerNumber	customerName
S18_1749	1917 Grand Touring Sedan	10124	112	Signal Gift Stores
S18_2248	1911 Ford Town Car	10124	112	Signal Gift Stores
S18_2325	1932 Model A Ford J-Coupe	10124	112	Signal Gift Stores
S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	10124	112	Signal Gift Stores
S18_4933	1957 Ford Thunderbird	10124	112	Signal Gift Stores
S24_1046	1970 Chevy Chevelle SS 454	10124	112	Signal Gift Stores
S24_1937	1939 Chevrolet Deluxe Coupe	10124	112	Signal Gift Stores
S24_2022	1938 Cadillac V-16 Presidential Limousine	10124	112	Signal Gift Stores
S24_2766	1949 Jaguar XK 120	10124	112	Signal Gift Stores
S24_2887	1952 Citroen-15CV	10124	112	Signal Gift Stores
S24_3191	1969 Chevrolet Camaro Z28	10124	112	Signal Gift Stores
S24_3432	2002 Chevy Corvette	10124	112	Signal Gift Stores
S24_3969	1936 Mercedes Benz 500k Roadster	10124	112	Signal Gift Stores
S18_1129	1993 Mazda RX-7	10278	112	Signal Gift Stores
S18_1589	1965 Aston Martin DB5	10278	112	Signal Gift Stores
S18_1889	1948 Porsche 356-A Roadster	10278	112	Signal Gift Stores
S18_1984	1995 Honda Civic	10278	112	Signal Gift Stores
S18_2870	1999 Indy 500 Monte Carlo SS	10278	112	Signal Gift Stores
S18_3232	1992 Ferrari 360 Spider red	10278	112	Signal Gift Stores
S18_3685	1948 Porsche Type 356 Roadster	10278	112	Signal Gift Stores
S24_1628	1966 Shelby Cobra 427 S/C	10278	112	Signal Gift Stores
S24_2972	1982 Lamborghini Diablo	10278	112	Signal Gift Stores
S24_3856	1956 Porsche 356A Coupe	10278	112	Signal Gift Stores
S18_1342	1937 Lincoln Berline	10346	112	Signal Gift Stores
S24_2766	1949 Jaguar XK 120	10346	112	Signal Gift Stores
S24_2887	1952 Citroen-15CV	10346	112	Signal Gift Stores
S24_3191	1969 Chevrolet Camaro Z28	10346	112	Signal Gift Stores
S24_3432	2002 Chevy Corvette	10346	112	Signal Gift Stores
S24_3969	1936 Mercedes Benz 500k Roadster	10346	112	Signal Gift Stores

29 rows in set (0.00 sec)

18. Write a query to retrieve the customers, their orders, and the associated product line information for the customers who are all from Boston.

```
mysql> select ps.productCode, ps.productName, os.orderNumber, cs.customerNumber, cs.customerName from products ps
-> inner join orderdetails ods on ods.productCode = ps.productCode
-> inner join orders os on os.orderNumber = ods.orderNumber
-> inner join customers cs on cs.customerNumber = os.customerNumber
-> where cs.city = "Boston";
```

productCode	productName	orderNumber	customerNumber	customerName
S18_3782	1957 Vespa GS150	10264	362	Gifts4AllAges.com
S18_4721	1957 Corvette Convertible	10264	362	Gifts4AllAges.com
S24_2360	1982 Ducati 900 Monster	10264	362	Gifts4AllAges.com
S24_4620	1961 Chevrolet Impala	10264	362	Gifts4AllAges.com
S32_2206	1982 Ducati 996 R	10264	362	Gifts4AllAges.com
S32_4485	1974 Ducati 350 Mk3 Desmo	10264	362	Gifts4AllAges.com
S50_4713	2002 Yamaha YZR M1	10264	362	Gifts4AllAges.com
S10_4757	1972 Alfa Romeo GTA	10295	362	Gifts4AllAges.com
S24_3151	1912 Ford Model T Delivery Wagon	10295	362	Gifts4AllAges.com
S700_1138	The Schooner Bluenose	10295	362	Gifts4AllAges.com
S700_2610	The USS Constitution Ship	10295	362	Gifts4AllAges.com
S700_3505	The Titanic	10295	362	Gifts4AllAges.com
S10_4757	1972 Alfa Romeo GTA	10414	362	Gifts4AllAges.com
S18_3029	1999 Yamaha Speed Boat	10414	362	Gifts4AllAges.com
S18_3140	1903 Ford Model A	10414	362	Gifts4AllAges.com
S18_3259	Collectable Wooden Train	10414	362	Gifts4AllAges.com
S18_4522	1904 Buick Runabout	10414	362	Gifts4AllAges.com
S24_2011	18th century schooner	10414	362	Gifts4AllAges.com
S24_3151	1912 Ford Model T Delivery Wagon	10414	362	Gifts4AllAges.com
S24_3816	1940 Ford Delivery Sedan	10414	362	Gifts4AllAges.com
S700_1138	The Schooner Bluenose	10414	362	Gifts4AllAges.com
S700_1938	The Mayflower	10414	362	Gifts4AllAges.com
S700_2610	The USS Constitution Ship	10414	362	Gifts4AllAges.com
S700_3505	The Titanic	10414	362	Gifts4AllAges.com
S700_3962	The Queen Mary	10414	362	Gifts4AllAges.com
S72_3212	Pont Yacht	10414	362	Gifts4AllAges.com
S10_4962	1962 LanciaA Delta 16V	10207	495	Diecast Collectables
S12_4473	1957 Chevy Pickup	10207	495	Diecast Collectables
S18_2238	1998 Chrysler Plymouth Prowler	10207	495	Diecast Collectables
S18_2319	1964 Mercedes Tour Bus	10207	495	Diecast Collectables
S18_2432	1926 Ford Fire Engine	10207	495	Diecast Collectables
S18_3232	1992 Ferrari 360 Spider red	10207	495	Diecast Collectables
S18_4027	1970 Triumph Spitfire	10207	495	Diecast Collectables
S18_4600	1940s Ford truck	10207	495	Diecast Collectables
S24_1444	1970 Dodge Coronet	10207	495	Diecast Collectables
S24_2300	1962 Volkswagen Microbus	10207	495	Diecast Collectables
S24_2840	1958 Chevy Corvette Limited Edition	10207	495	Diecast Collectables
S24_4048	1992 Porsche Cayenne Turbo Silver	10207	495	Diecast Collectables
S32_1268	1980s GM Manhattan Express	10207	495	Diecast Collectables
S32_2509	1954 Greyhound Scenicruiser	10207	495	Diecast Collectables
S32_3207	1950's Chicago Surface Lines Streetcar	10207	495	Diecast Collectables
S50_1392	Diamond T620 Semi-Skirted Tanker	10207	495	Diecast Collectables
S18_2325	1932 Model A Ford J-Coupe	10243	495	Diecast Collectables
S24_1937	1939 Chevrolet Deluxe Coupe	10243	495	Diecast Collectables

44 rows in set (0.00 sec)

19. Write a query to get the employees, their respective managers, and the corresponding office details of the Sales Rep.

```
mysql> select es.employeeNumber, concat(es.firstName, ' ', es.lastName) as employeeName, es.reportsTo as managerNumber,
-> (select concat(e.firstName, ' ', e.lastName) from employees e where es.reportsTo = e.employeeNumber) as managerName,
-> os.officeCode, os.postalCode, os.city, os.country from employees es
-> inner join offices os on os.officeCode = es.officeCode
-> where es.jobTitle = "Sales Rep";
```

employeeNumber	employeeName	managerNumber	managerName	officeCode	postalCode	city	country
1165	Leslie Jennings	1143	Anthony Bow	1	94080	San Francisco	USA
1166	Leslie Thompson	1143	Anthony Bow	1	94080	San Francisco	USA
1188	Julie Firrelli	1143	Anthony Bow	2	02107	Boston	USA
1216	Steve Patterson	1143	Anthony Bow	2	02107	Boston	USA
1286	Foon Yue Tseng	1143	Anthony Bow	3	10022	NYC	USA
1323	George Vanauf	1143	Anthony Bow	3	10022	NYC	USA
1337	Loui Bondur	1102	Gerard Bondur	4	75017	Paris	France
1370	Gerard Hernandez	1102	Gerard Bondur	4	75017	Paris	France
1401	Pamela Castillo	1102	Gerard Bondur	4	75017	Paris	France
1501	Larry Bott	1102	Gerard Bondur	7	EC2N 1HN	London	UK
1504	Barry Jones	1102	Gerard Bondur	7	EC2N 1HN	London	UK
1611	Andy Fixter	1088	William Patterson	6	NSW 2010	Sydney	Australia
1612	Peter Marsh	1088	William Patterson	6	NSW 2010	Sydney	Australia
1619	Tom King	1088	William Patterson	6	NSW 2010	Sydney	Australia
1621	Mami Nishi	1056	Mary Patterson	5	102-8578	Tokyo	Japan
1625	Yoshimi Kato	1621	Mami Nishi	5	102-8578	Tokyo	Japan
1702	Martin Gerard	1102	Gerard Bondur	4	75017	Paris	France

17 rows in set (0.00 sec)

20. Write a query to retrieve the product lines, products, and the corresponding customer information for Vintage Cars.

```
mysql> select cs.customerNumber, cs.customerName, ps.productCode, ps.productName, pls.productLine from products ps
-> inner join productlines pls on pls.productLine = ps.productLine
-> inner join orderdetails ods on ods.productCode = ps.productCode
-> inner join orders os on os.orderNumber = ods.orderNumber
-> inner join customers cs on cs.customerNumber = os.customerNumber
-> where ps.productLine = "Vintage Cars";
```

customerNumber	customerName	productCode	productName	productLine
181	Vitachrome Inc.	S18_1342	1937 Lincoln Berline	Vintage Cars
129	Mini Wheels Co.	S18_1342	1937 Lincoln Berline	Vintage Cars
114	Australian Collectors, Co.	S18_1342	1937 Lincoln Berline	Vintage Cars
282	Souvenirs And Things Co.	S18_1342	1937 Lincoln Berline	Vintage Cars
487	Signal Collectibles Ltd.	S18_1342	1937 Lincoln Berline	Vintage Cars
321	Corporate Gift Ideas Co.	S18_1342	1937 Lincoln Berline	Vintage Cars
278	Rovelli Gifts	S18_1342	1937 Lincoln Berline	Vintage Cars
124	Mini Gifts Distributors Ltd.	S18_1342	1937 Lincoln Berline	Vintage Cars
471	Australian Collectables, Ltd	S18_1342	1937 Lincoln Berline	Vintage Cars
141	Euro+ Shopping Channel	S18_1342	1937 Lincoln Berline	Vintage Cars
475	West Coast Collectables Co.	S18_1342	1937 Lincoln Berline	Vintage Cars
146	Saveley & Henriot, Co.	S18_1342	1937 Lincoln Berline	Vintage Cars
141	Euro+ Shopping Channel	S18_1342	1937 Lincoln Berline	Vintage Cars
145	Danish Wholesale Imports	S18_1342	1937 Lincoln Berline	Vintage Cars
412	Extreme Desk Decorations, Ltd	S18_1342	1937 Lincoln Berline	Vintage Cars
249	Amica Models & Co.	S18_1342	1937 Lincoln Berline	Vintage Cars
167	Herkuu Gifts	S18_1342	1937 Lincoln Berline	Vintage Cars
256	Auto AssociAões & Cie.	S18_1342	1937 Lincoln Berline	Vintage Cars
124	Mini Gifts Distributors Ltd.	S18_1342	1937 Lincoln Berline	Vintage Cars
363	Online Diecast Creations Co.	S18_1342	1937 Lincoln Berline	Vintage Cars
187	AV Stores, Co.	S18_1342	1937 Lincoln Berline	Vintage Cars
112	Signal Gift Stores	S18_1342	1937 Lincoln Berline	Vintage Cars
250	Lyon Souvenirs	S18_1342	1937 Lincoln Berline	Vintage Cars
379	Collectables For Less Inc.	S18_1342	1937 Lincoln Berline	Vintage Cars
141	Euro+ Shopping Channel	S18_1342	1937 Lincoln Berline	Vintage Cars
276	Anna's Decorations, Ltd	S18_1342	1937 Lincoln Berline	Vintage Cars
357	GiftsForHim.com	S18_1342	1937 Lincoln Berline	Vintage Cars
157	Diecast Classics Inc.	S18_1342	1937 Lincoln Berline	Vintage Cars
181	Vitachrome Inc.	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
129	Mini Wheels Co.	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
458	Corrida Auto Replicas, Ltd	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
282	Souvenirs And Things Co.	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
487	Signal Collectibles Ltd.	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
321	Corporate Gift Ideas Co.	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
278	Rovelli Gifts	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
124	Mini Gifts Distributors Ltd.	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
471	Australian Collectables, Ltd	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
141	Euro+ Shopping Channel	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
475	West Coast Collectables Co.	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
146	Saveley & Henriot, Co.	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
141	Euro+ Shopping Channel	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
145	Danish Wholesale Imports	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
412	Extreme Desk Decorations, Ltd	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
249	Amica Models & Co.	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
167	Herkuu Gifts	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
256	Auto AssociAões & Cie.	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
124	Mini Gifts Distributors Ltd.	S18_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars

141	Euro+ Shopping Channel	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
381	Royale Belge	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
473	Frau da Collezione	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
161	Technics Stores Inc.	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
496	Kelly's Gift Shop	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
211	King Kong Collectables, Co.	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
211	King Kong Collectables, Co.	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
177	Osaka Souvenirs Co.	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
114	Australian Collectors, Co.	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
260	Royal Canadian Collectables, Ltd.	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
450	The Sharp Gifts Warehouse	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
141	Euro+ Shopping Channel	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
119	La Rochelle Gifts	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
299	Norway Gifts By Mail, Co.	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
189	Clover Collections, Co.	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
319	Mini Classics	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
240	giftsbymail.co.uk	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
278	Rovelli Gifts	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
216	Enaco Distributors	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
447	Gift Ideas Corp.	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
282	Souvenirs And Things Co.	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
119	La Rochelle Gifts	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
462	FunGiftIdeas.com	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
353	Reims Collectables	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
328	Tekni Collectables Inc.	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
386	L'ordine Souvenirs	S32_4289	1928	Ford Phaeton Deluxe	Vintage Cars
278	Rovelli Gifts	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
114	Australian Collectors, Co.	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
141	Euro+ Shopping Channel	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
320	Mini Creations Ltd.	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
141	Euro+ Shopping Channel	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
161	Technics Stores Inc.	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
496	Kelly's Gift Shop	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
211	King Kong Collectables, Co.	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
475	West Coast Collectables Co.	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
177	Osaka Souvenirs Co.	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
114	Australian Collectors, Co.	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
260	Royal Canadian Collectables, Ltd.	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
450	The Sharp Gifts Warehouse	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
141	Euro+ Shopping Channel	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
119	La Rochelle Gifts	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
299	Norway Gifts By Mail, Co.	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
415	Bavarian Collectables Imports, Co.	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
319	Mini Classics	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
240	giftsbymail.co.uk	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
278	Rovelli Gifts	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
216	Enaco Distributors	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
447	Gift Ideas Corp.	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
282	Souvenirs And Things Co.	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
119	La Rochelle Gifts	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
462	FunGiftIdeas.com	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
353	Reims Collectables	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
328	Tekni Collectables Inc.	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars
386	L'ordine Souvenirs	S50_1341	1930	Buick Marquette Phaeton	Vintage Cars

657 rows in set (0.01 sec)