

Anthony Dawson
Jose Vasquez
Kevin Vu

Output Queries

1. The list of all airlines for a given airport.

select distinct abbreviation, airlinename, headquartersCity as "Headquarters City",flightCategory as "Flight Category" from (airline natural join flight) inner join airport on abbreviation = arrivalAirport or abbreviation = departureAirport where abbreviation = 'LAX';

#	ABBREVIATION	AIRLINENAME	Headquarters City	Flight Category
1	LAX	American	Fort Worth	Domestic
2	LAX	CA West Coast	Los Angeles	Local
3	LAX	United	Chicago	Domestic

2. The list of all flights for a given airline. Sorted by:

a. starting location

select airlineName as "Airline Name", flightNumber as "Flight Number", departureTime as "Departure Time", arrivalTime as "Arrival Time", tailNumber as "Tail Number", departureAirport as "Departure Airport", arrivalAirport as "Arrival Airport" from Flight where airlineName = 'American' order by departureAirport;

#	Airline Name	Flight Number	Departure Time	Arrival Time	Tail Number	Departure Airport	Arrival Airport
1	American	4321	08:00:00	12:59:59	C11	DFW	LGB
2	American	6785	09:00:00	14:00:00	C11	ITO	LAX
3	American	4167	01:00:00	02:20:00	C9	LAS	LAX
4	American	4929	15:00:00	16:30:00	C9	LAX	MYR
5	American	4928	15:00:00	16:30:00	C9	LAX	MYR
6	American	4168	03:30:00	04:00:00	C9	LAX	LAS
7	American	4087	01:00:00	02:35:00	C10	LAX	MMH
8	American	4322	15:00:00	19:50:50	C11	LGB	DFW
9	American	4089	03:00:00	04:35:00	C10	MMH	LAX
10	American	4088	03:00:00	04:35:00	C10	MMH	LAX
11	American	4927	12:00:00	13:30:00	C9	MYR	LAX

b. destination

select airlineName as "Airline Name", flightNumber as "Flight Number", departureTime as "Departure Time", arrivalTime as "Arrival Time",tailNumber as "Tail Number", departureAirport as "Departure Airport", arrivalAirport as "Arrival Airport" from Flight where airlineName = 'American' order by arrivalAirport;

#	Airline Name	Flight Number	Departure Time	Arrival Time	Tail Number	Departure Airport	Arrival Airport
1	American	4322	15:00:00	19:50:50	C11	LGB	DFW
2	American	4168	03:30:00	04:00:00	C9	LAX	LAS
3	American	6785	09:00:00	14:00:00	C11	ITO	LAX
4	American	4927	12:00:00	13:30:00	C9	MYR	LAX
5	American	4167	01:00:00	02:20:00	C9	LAS	LAX
6	American	4089	03:00:00	04:35:00	C10	MMH	LAX
7	American	4088	03:00:00	04:35:00	C10	MMH	LAX
8	American	4321	08:00:00	12:59:59	C11	DFW	LGB
9	American	4087	01:00:00	02:35:00	C10	LAX	MMH
10	American	4929	15:00:00	16:30:00	C9	LAX	MYR
11	American	4928	15:00:00	16:30:00	C9	LAX	MYR

c. longest flight

select airlineName as "Airline Name", flightNumber as "Flight Number", departureTime as "Departure Time", arrivalTime as "Arrival Time", tailNumber as "Tail Number", departureAirport as "Departure Airport", arrivalAirport as "Arrival Airport", {fn TIMESTAMPDIFF(SQL_TSI_minute, departuretime, arrivaltime)} as totalMinutes from Flight where airlineName = 'American' order by totalMinutes DESC;

#	Airline Name	Flight Number	Departure Time	Arrival Time	Tail Number	Departure Airport	Arrival Airport	TOTALMINUTES
1	American	6785	09:00:00	14:00:00	C11	ITO	LAX	300
2	American	4321	08:00:00	12:59:59	C11	DFW	LGB	299
3	American	4322	15:00:00	19:50:50	C11	LGB	DFW	290
4	American	4089	03:00:00	04:35:00	C10	MMH	LAX	95
5	American	4088	03:00:00	04:35:00	C10	MMH	LAX	95
6	American	4087	01:00:00	02:35:00	C10	LAX	MMH	95
7	American	4929	15:00:00	16:30:00	C9	LAX	MYR	90
8	American	4928	15:00:00	16:30:00	C9	LAX	MYR	90
9	American	4927	12:00:00	13:30:00	C9	MYR	LAX	90
10	American	4167	01:00:00	02:20:00	C9	LAS	LAX	80
11	American	4168	03:30:00	04:00:00	C9	LAX	LAS	30

d. shortest flight.

select airlineName as "Airline Name", flightNumber as "Flight Number", departureTlme as "Departure Time", arrivalTime as "Arrival Time", tailNumber as "Tail Number", departureAirport as "Departure Airport", arrivalAirport as "Arrival Airport", {fn TIMESTAMPDIFF(SQL_TSI_minute, departuretime, arrivaltime)} as totalMinutes from Flight where airlineName = 'American' order by totalMinutes;

#	Airline Name	Flight Number	Departure Time	Arrival Time	Tail Number	Departure Airport	Arrival Airport	TOTALMINUTES
1	American	4168	03:30:00	04:00:00	C9	LAX	LAS	30
2	American	4167	01:00:00	02:20:00	C9	LAS	LAX	80
3	American	4929	15:00:00	16:30:00	C9	LAX	MYR	90
4	American	4928	15:00:00	16:30:00	C9	LAX	MYR	90
5	American	4927	12:00:00	13:30:00	C9	MYR	LAX	90
6	American	4089	03:00:00	04:35:00	C10	MMH	LAX	95
7	American	4088	03:00:00	04:35:00	C10	MMH	LAX	95
8	American	4087	01:00:00	02:35:00	C10	LAX	MMH	95
9	American	4322	15:00:00	19:50:50	C11	LGB	DFW	290
10	American	4321	08:00:00	12:59:59	C11	DFW	LGB	299
11	American	6785	09:00:00	14:00:00	C11	ITO	LAX	300

3. Flights that charge for extras (water, etc.)

select airlineName as "Airline Name", flightNumber as "Flight Number", itemName as "Charged Item", cost as "Cost" from ChargedItem where cost != 0

#	Airline Name	Flight Number	Charged Item	Cost
1	American	4927	Water	1.5
2	American	4928	Water	1.5
3	American	4929	Water	1.5
4	American	4167	Water	1.5
5	American	4168	Water	1.5
6	American	4087	Water	1.5
7	American	4088	Water	1.5
8	American	4089	Water	1.5
9	American	4321	Water	1.5
10	American	4322	Water	1.5
11	American	6785	Water	1.5
12	Alaska	5211	Pillow	15
13	Alaska	5212	Pillow	15
14	Alaska	5213	Pillow	15
15	Alaska	5195	Pillow	15
16	Alaska	5196	Pillow	15
17	Alaska	5197	Pillow	15
18	Alaska	5555	WiFi	100
19	Alaska	5556	WiFi	100
20	Alaska	5557	WiFi	100
21	Alaska	5961	WiFi	100
22	Alaska	5962	WiFi	100
23	Alaska	5963	WiFi	100
24	Alaska	5411	WiFi	100
25	Alaska	5412	WiFi	100
26	Alaska	5413	WiFi	100
27	United	1486	Pillow	15
28	United	1122	Pillow	15
29	United	1248	Pillow	15
30	United	1128	Pillow	15
31	United	1992	Pillow	15
32	Delta	1680	Pillow	15
33	Delta	1691	Pillow	15
34	Delta	1751	Pillow	15
35	Delta	1795	Pillow	15
36	Delta	1951	Pillow	15
37	CA West Coast	4566	Meal	100
38	CA West Coast	4567	Meal	100
39	Bay Envoy	7885	Meal	100
40	Bay Envoy	7886	Meal	100
41	Emirates	7321	Meal	100
42	Emirates	9898	Meal	100
43	Singapore	1211	Meal	100
44	Singapore	8821	Meal	100
45	American	4928	WiFi	100
46	American	4929	WiFi	100
47	Bay Envoy	7886	WiFi	100
48	CA West Coast	4566	WiFi	100

4. The crew roster for each flight for each airline

select airlinename, flightnumber, crewmember.* from crewMember natural join flightcrew
natural join flightinstance natural join flight order by airlinename, flightnumber;

#	AIRLINENAME	FLIGHTNUMBER	FAANUMBER	MEMBERNAME	DOB	EVALUATE
1	Alaska	5195	446623	Donna Walker	1994-07-18	<input type="checkbox"/>
2	Alaska	5195	856663	Samantha Pillard	1990-04-09	<input type="checkbox"/>
3	Alaska	5195	160158	Scott G Edwards	1980-12-12	<input type="checkbox"/>
4	Alaska	5195	156019	Eric V Shulman	1976-11-11	<input checked="" type="checkbox"/>
5	Alaska	5195	264637	Kim Mantle	1978-04-08	<input type="checkbox"/>
6	Alaska	5195	964166	Andrew Keller	1977-07-07	<input type="checkbox"/>
7	Alaska	5195	625091	Erin Hein	1985-11-11	<input type="checkbox"/>
8	Alaska	5196	446623	Donna Walker	1994-07-18	<input type="checkbox"/>
9	Alaska	5196	856663	Samantha Pillard	1990-04-09	<input type="checkbox"/>
10	Alaska	5196	160158	Scott G Edwards	1980-12-12	<input type="checkbox"/>
11	Alaska	5196	156019	Eric V Shulman	1976-11-11	<input checked="" type="checkbox"/>
12	Alaska	5196	264637	Kim Mantle	1978-04-08	<input type="checkbox"/>
13	Alaska	5196	964166	Andrew Keller	1977-07-07	<input type="checkbox"/>
14	Alaska	5196	625091	Erin Hein	1985-11-11	<input type="checkbox"/>
15	Alaska	5197	446623	Donna Walker	1994-07-18	<input type="checkbox"/>
16	Alaska	5197	856663	Samantha Pillard	1990-04-09	<input type="checkbox"/>
17	Alaska	5197	160158	Scott G Edwards	1980-12-12	<input type="checkbox"/>
18	Alaska	5197	156019	Eric V Shulman	1976-11-11	<input checked="" type="checkbox"/>
19	Alaska	5197	264637	Kim Mantle	1978-04-08	<input type="checkbox"/>
20	Alaska	5197	964166	Andrew Keller	1977-07-07	<input type="checkbox"/>
21	Alaska	5197	625091	Erin Hein	1985-11-11	<input type="checkbox"/>
22	Alaska	5211	994432	Grace Shaye	1968-11-23	<input type="checkbox"/>
23	Alaska	5211	760655	Tiffany Mabrey	1992-05-19	<input type="checkbox"/>
24	Alaska	5211	344311	Claire Miller	1996-04-03	<input type="checkbox"/>
25	Alaska	5211	457664	Emmet Bradley	1976-08-15	<input type="checkbox"/>
26	Alaska	5211	142421	Richard McKeon	1980-11-11	<input type="checkbox"/>
27	Alaska	5211	702470	Samuel L Jackson	1948-12-21	<input type="checkbox"/>
28	Alaska	5212	994432	Grace Shaye	1968-11-23	<input type="checkbox"/>
29	Alaska	5212	760655	Tiffany Mabrey	1992-05-19	<input type="checkbox"/>
30	Alaska	5212	344311	Claire Miller	1996-04-03	<input type="checkbox"/>
31	Alaska	5212	457664	Emmet Bradley	1976-08-15	<input type="checkbox"/>
32	Alaska	5212	142421	Richard McKeon	1980-11-11	<input type="checkbox"/>
33	Alaska	5212	702470	Samuel L Jackson	1948-12-21	<input type="checkbox"/>
34	Alaska	5213	994432	Grace Shaye	1968-11-23	<input type="checkbox"/>
35	Alaska	5213	760655	Tiffany Mabrey	1992-05-19	<input type="checkbox"/>
36	Alaska	5213	344311	Claire Miller	1996-04-03	<input type="checkbox"/>
37	Alaska	5213	457664	Emmet Bradley	1976-08-15	<input type="checkbox"/>
38	Alaska	5213	142421	Richard McKeon	1980-11-11	<input type="checkbox"/>
39	Alaska	5213	702470	Samuel L Jackson	1948-12-21	<input type="checkbox"/>
40	Alaska	5411	673349	Beth Summers	1997-05-16	<input type="checkbox"/>
41	Alaska	5411	565331	Christina Stocker	1989-03-24	<input type="checkbox"/>
42	Alaska	5411	915091	Sam Oyana	1980-09-01	<input type="checkbox"/>
43	Alaska	5411	643034	Mick Jager	1983-03-20	<input type="checkbox"/>
44	Alaska	5411	563633	Kenny Koi	1979-09-05	<input type="checkbox"/>
45	Alaska	5412	673349	Beth Summers	1997-05-16	<input type="checkbox"/>
46	Alaska	5412	565331	Christina Stocker	1989-03-24	<input type="checkbox"/>
47	Alaska	5412	915091	Sam Oyana	1980-09-01	<input type="checkbox"/>
48	Alaska	5412	643034	Mick Jager	1983-03-20	<input type="checkbox"/>
49	Alaska	5412	563633	Kenny Koi	1979-09-05	<input type="checkbox"/>
50	Alaska	5413	673349	Beth Summers	1997-05-16	<input type="checkbox"/>
51	Alaska	5413	565331	Christina Stocker	1989-03-24	<input type="checkbox"/>
52	Alaska	5413	915091	Sam Oyana	1980-09-01	<input type="checkbox"/>
53	Alaska	5413	643034	Mick Jager	1983-03-20	<input type="checkbox"/>
54	Alaska	5413	563633	Kenny Koi	1979-09-05	<input type="checkbox"/>
55	Alaska	5555	183328	John Jones	1973-12-13	<input type="checkbox"/>
56	Alaska	5555	952493	Hal Jordan	1980-07-18	<input type="checkbox"/>
57	Alaska	5555	184937	Wally West	1986-04-28	<input type="checkbox"/>
58	Alaska	5555	172450	Bruce Wayne	1976-07-03	<input type="checkbox"/>
59	Alaska	5555	194385	Clark Kent	1978-03-21	<input type="checkbox"/>
60	Alaska	5555	245694	Diana Prince	1983-01-17	<input type="checkbox"/>

61	Alaska	5556	183328 John Jones	1973-12-13	
62	Alaska	5556	952493 Hal Jordan	1980-07-18	
63	Alaska	5556	184937 Wally West	1986-04-28	
64	Alaska	5556	172450 Bruce Wayne	1976-07-03	
65	Alaska	5556	194385 Clark Kent	1978-03-21	
66	Alaska	5556	245694 Diana Prince	1983-01-17	
67	Alaska	5557	183328 John Jones	1973-12-13	
68	Alaska	5557	952493 Hal Jordan	1980-07-18	
69	Alaska	5557	184937 Wally West	1986-04-28	
70	Alaska	5557	172450 Bruce Wayne	1976-07-03	
71	Alaska	5557	194385 Clark Kent	1978-03-21	
72	Alaska	5557	245694 Diana Prince	1983-01-17	
73	Alaska	5961	845421 Finn Donalds	1992-06-13	
74	Alaska	5961	737462 Darcy May	1996-02-12	
75	Alaska	5961	851951 Tom Hanks	1956-07-09	
76	Alaska	5961	656463 Linda Hill	1981-12-21	
77	Alaska	5961	656321 Penelope Griff	1980-06-02	
78	Alaska	5962	845421 Finn Donalds	1992-06-13	
79	Alaska	5962	737462 Darcy May	1996-02-12	
80	Alaska	5962	851951 Tom Hanks	1956-07-09	
81	Alaska	5962	656463 Linda Hill	1981-12-21	
82	Alaska	5962	656321 Penelope Griff	1980-06-02	
83	Alaska	5963	845421 Finn Donalds	1992-06-13	
84	Alaska	5963	737462 Darcy May	1996-02-12	
85	Alaska	5963	851951 Tom Hanks	1956-07-09	
86	Alaska	5963	656463 Linda Hill	1981-12-21	
87	Alaska	5963	656321 Penelope Griff	1980-06-02	
88	American	4087	446623 Donna Walker	1994-07-18	
89	American	4087	856663 Samantha Pillard	1990-04-09	
90	American	4087	160158 Scott G Edwards	1980-12-12	
91	American	4087	156019 Eric V Shulman	1976-11-11	✓
92	American	4087	264637 Kim Mantle	1978-04-08	
93	American	4087	964166 Andrew Keller	1977-07-07	
94	American	4087	625091 Erin Hein	1985-11-11	
95	American	4088	446623 Donna Walker	1994-07-18	
96	American	4088	856663 Samantha Pillard	1990-04-09	
97	American	4088	160158 Scott G Edwards	1980-12-12	
98	American	4088	156019 Eric V Shulman	1976-11-11	✓
99	American	4088	264637 Kim Mantle	1978-04-08	
100	American	4088	964166 Andrew Keller	1977-07-07	
101	American	4088	625091 Erin Hein	1985-11-11	
102	American	4089	446623 Donna Walker	1994-07-18	
103	American	4089	856663 Samantha Pillard	1990-04-09	
104	American	4089	160158 Scott G Edwards	1980-12-12	
105	American	4089	156019 Eric V Shulman	1976-11-11	✓
106	American	4089	264637 Kim Mantle	1978-04-08	
107	American	4089	964166 Andrew Keller	1977-07-07	
108	American	4089	625091 Erin Hein	1985-11-11	
109	American	4167	994432 Grace Shaye	1968-11-23	
110	American	4167	760655 Tiffany Mabrey	1992-05-19	
111	American	4167	344311 Claire Miller	1996-04-03	
112	American	4167	457664 Emmet Bradley	1976-08-15	
113	American	4167	142421 Richard McKeon	1980-11-11	
114	American	4167	702470 Samuel L Jackson	1948-12-21	
115	American	4168	994432 Grace Shaye	1968-11-23	
116	American	4168	760655 Tiffany Mabrey	1992-05-19	
117	American	4168	344311 Claire Miller	1996-04-03	
118	American	4168	457664 Emmet Bradley	1976-08-15	
119	American	4168	142421 Richard McKeon	1980-11-11	
120	American	4168	702470 Samuel L Jackson	1948-12-21	

121	American	4321	446623 Donna Walker	1994-07-18	<input type="checkbox"/>
122	American	4321	856663 Samantha Pillard	1990-04-09	<input type="checkbox"/>
123	American	4321	160158 Scott G Edwards	1980-12-12	<input type="checkbox"/>
124	American	4321	156019 Eric V Shulman	1976-11-11	<input checked="" type="checkbox"/>
125	American	4321	264637 Kim Mantle	1978-04-08	<input type="checkbox"/>
126	American	4321	964166 Andrew Keller	1977-07-07	<input type="checkbox"/>
127	American	4321	625091 Erin Hein	1985-11-11	<input type="checkbox"/>
128	American	4322	446623 Donna Walker	1994-07-18	<input type="checkbox"/>
129	American	4322	856663 Samantha Pillard	1990-04-09	<input type="checkbox"/>
130	American	4322	160158 Scott G Edwards	1980-12-12	<input type="checkbox"/>
131	American	4322	156019 Eric V Shulman	1976-11-11	<input checked="" type="checkbox"/>
132	American	4322	264637 Kim Mantle	1978-04-08	<input type="checkbox"/>
133	American	4322	964166 Andrew Keller	1977-07-07	<input type="checkbox"/>
134	American	4322	625091 Erin Hein	1985-11-11	<input type="checkbox"/>
135	American	4927	994432 Grace Shaye	1968-11-23	<input type="checkbox"/>
136	American	4927	760655 Tiffany Mabrey	1992-05-19	<input type="checkbox"/>
137	American	4927	344311 Claire Miller	1996-04-03	<input type="checkbox"/>
138	American	4927	457664 Emmet Bradley	1976-08-15	<input type="checkbox"/>
139	American	4927	142421 Richard McKeon	1980-11-11	<input type="checkbox"/>
140	American	4927	702470 Samuel L Jackson	1948-12-21	<input type="checkbox"/>
141	American	4928	994432 Grace Shaye	1968-11-23	<input type="checkbox"/>
142	American	4928	760655 Tiffany Mabrey	1992-05-19	<input type="checkbox"/>
143	American	4928	344311 Claire Miller	1996-04-03	<input type="checkbox"/>
144	American	4928	457664 Emmet Bradley	1976-08-15	<input type="checkbox"/>
145	American	4928	142421 Richard McKeon	1980-11-11	<input type="checkbox"/>
146	American	4928	702470 Samuel L Jackson	1948-12-21	<input type="checkbox"/>
147	American	4929	994432 Grace Shaye	1968-11-23	<input type="checkbox"/>
148	American	4929	760655 Tiffany Mabrey	1992-05-19	<input type="checkbox"/>
149	American	4929	344311 Claire Miller	1996-04-03	<input type="checkbox"/>
150	American	4929	457664 Emmet Bradley	1976-08-15	<input type="checkbox"/>
151	American	4929	142421 Richard McKeon	1980-11-11	<input type="checkbox"/>
152	American	4929	702470 Samuel L Jackson	1948-12-21	<input type="checkbox"/>
153	American	6785	994432 Grace Shaye	1968-11-23	<input type="checkbox"/>
154	American	6785	760655 Tiffany Mabrey	1992-05-19	<input type="checkbox"/>
155	American	6785	344311 Claire Miller	1996-04-03	<input type="checkbox"/>
156	American	6785	457664 Emmet Bradley	1976-08-15	<input type="checkbox"/>
157	American	6785	142421 Richard McKeon	1980-11-11	<input type="checkbox"/>
158	American	6785	702470 Samuel L Jackson	1948-12-21	<input type="checkbox"/>
159	Bay Envoy	7885	845421 Finn Donalds	1992-06-13	<input type="checkbox"/>
160	Bay Envoy	7885	737462 Darcy May	1996-02-12	<input type="checkbox"/>
161	Bay Envoy	7885	851951 Tom Hanks	1956-07-09	<input type="checkbox"/>
162	Bay Envoy	7885	656463 Linda Hill	1981-12-21	<input type="checkbox"/>
163	Bay Envoy	7885	656321 Penelope Griff	1980-06-02	<input type="checkbox"/>
164	Bay Envoy	7886	183328 John Jones	1973-12-13	<input type="checkbox"/>
165	Bay Envoy	7886	952493 Hal Jordan	1980-07-18	<input type="checkbox"/>
166	Bay Envoy	7886	184937 Wally West	1986-04-28	<input type="checkbox"/>
167	Bay Envoy	7886	172450 Bruce Wayne	1976-07-03	<input type="checkbox"/>
168	Bay Envoy	7886	194385 Clark Kent	1978-03-21	<input type="checkbox"/>
169	Bay Envoy	7886	245694 Diana Prince	1983-01-17	<input type="checkbox"/>
170	Brussel	1909	845421 Finn Donalds	1992-06-13	<input type="checkbox"/>
171	Brussel	1909	737462 Darcy May	1996-02-12	<input type="checkbox"/>
172	Brussel	1909	851951 Tom Hanks	1956-07-09	<input type="checkbox"/>
173	Brussel	1909	656463 Linda Hill	1981-12-21	<input type="checkbox"/>
174	Brussel	1909	656321 Penelope Griff	1980-06-02	<input type="checkbox"/>
175	Brussel	5501	845421 Finn Donalds	1992-06-13	<input type="checkbox"/>
176	Brussel	5501	737462 Darcy May	1996-02-12	<input type="checkbox"/>
177	Brussel	5501	851951 Tom Hanks	1956-07-09	<input type="checkbox"/>
178	Brussel	5501	656463 Linda Hill	1981-12-21	<input type="checkbox"/>
179	Brussel	5501	656321 Penelope Griff	1980-06-02	<input type="checkbox"/>
180	CA West Coast	4566	994432 Grace Shaye	1968-11-23	<input type="checkbox"/>

181	CA West Coast	4566	760655 Tiffany Mabrey	1992-05-19	<input type="checkbox"/>
182	CA West Coast	4566	344311 Claire Miller	1996-04-03	<input type="checkbox"/>
183	CA West Coast	4566	457664 Emmet Bradley	1976-08-15	<input type="checkbox"/>
184	CA West Coast	4566	142421 Richard McKeon	1980-11-11	<input type="checkbox"/>
185	CA West Coast	4566	702470 Samuel L Jackson	1948-12-21	<input type="checkbox"/>
186	CA West Coast	4567	446623 Donna Walker	1994-07-18	<input type="checkbox"/>
187	CA West Coast	4567	856663 Samantha Pillard	1990-04-09	<input type="checkbox"/>
188	CA West Coast	4567	160158 Scott G Edwards	1980-12-12	<input type="checkbox"/>
189	CA West Coast	4567	156019 Eric V Shulman	1976-11-11	<input checked="" type="checkbox"/>
190	CA West Coast	4567	264637 Kim Mantle	1978-04-08	<input type="checkbox"/>
191	CA West Coast	4567	964166 Andrew Keller	1977-07-07	<input type="checkbox"/>
192	CA West Coast	4567	625091 Erin Hein	1985-11-11	<input type="checkbox"/>
193	Cathay Pacific	1059	994432 Grace Shaye	1968-11-23	<input type="checkbox"/>
194	Cathay Pacific	1059	760655 Tiffany Mabrey	1992-05-19	<input type="checkbox"/>
195	Cathay Pacific	1059	344311 Claire Miller	1996-04-03	<input type="checkbox"/>
196	Cathay Pacific	1059	457664 Emmet Bradley	1976-08-15	<input type="checkbox"/>
197	Cathay Pacific	1059	142421 Richard McKeon	1980-11-11	<input type="checkbox"/>
198	Cathay Pacific	1059	702470 Samuel L Jackson	1948-12-21	<input type="checkbox"/>
199	Cathay Pacific	1596	845421 Finn Donalds	1992-06-13	<input type="checkbox"/>
200	Cathay Pacific	1596	737462 Darcy May	1996-02-12	<input type="checkbox"/>
201	Cathay Pacific	1596	851951 Tom Hanks	1956-07-09	<input type="checkbox"/>
202	Cathay Pacific	1596	656463 Linda Hill	1981-12-21	<input type="checkbox"/>
203	Cathay Pacific	1596	656321 Penelope Griff	1980-06-02	<input type="checkbox"/>
204	Delta	1680	673349 Beth Summers	1997-05-16	<input type="checkbox"/>
205	Delta	1680	565331 Christina Stocker	1989-03-24	<input type="checkbox"/>
206	Delta	1680	915091 Sam Oyana	1980-09-01	<input type="checkbox"/>
207	Delta	1680	643034 Mick Jager	1983-03-20	<input type="checkbox"/>
208	Delta	1680	563633 Kenny Koi	1979-09-05	<input type="checkbox"/>
209	Delta	1691	994432 Grace Shaye	1968-11-23	<input type="checkbox"/>
210	Delta	1691	760655 Tiffany Mabrey	1992-05-19	<input type="checkbox"/>
211	Delta	1691	344311 Claire Miller	1996-04-03	<input type="checkbox"/>
212	Delta	1691	457664 Emmet Bradley	1976-08-15	<input type="checkbox"/>
213	Delta	1691	142421 Richard McKeon	1980-11-11	<input type="checkbox"/>
214	Delta	1691	702470 Samuel L Jackson	1948-12-21	<input type="checkbox"/>
215	Delta	1751	446623 Donna Walker	1994-07-18	<input type="checkbox"/>
216	Delta	1751	856663 Samantha Pillard	1990-04-09	<input type="checkbox"/>
217	Delta	1751	160158 Scott G Edwards	1980-12-12	<input type="checkbox"/>
218	Delta	1751	156019 Eric V Shulman	1976-11-11	<input checked="" type="checkbox"/>
219	Delta	1751	264637 Kim Mantle	1978-04-08	<input type="checkbox"/>
220	Delta	1751	964166 Andrew Keller	1977-07-07	<input type="checkbox"/>
221	Delta	1751	625091 Erin Hein	1985-11-11	<input type="checkbox"/>
222	Delta	1795	845421 Finn Donalds	1992-06-13	<input type="checkbox"/>
223	Delta	1795	737462 Darcy May	1996-02-12	<input type="checkbox"/>
224	Delta	1795	851951 Tom Hanks	1956-07-09	<input type="checkbox"/>
225	Delta	1795	656463 Linda Hill	1981-12-21	<input type="checkbox"/>
226	Delta	1795	656321 Penelope Griff	1980-06-02	<input type="checkbox"/>
227	Delta	1951	183328 John Jones	1973-12-13	<input type="checkbox"/>
228	Delta	1951	952493 Hal Jordan	1980-07-18	<input type="checkbox"/>
229	Delta	1951	184937 Wally West	1986-04-28	<input type="checkbox"/>
230	Delta	1951	172450 Bruce Wayne	1976-07-03	<input type="checkbox"/>
231	Delta	1951	194385 Clark Kent	1978-03-21	<input type="checkbox"/>
232	Delta	1951	245694 Diana Prince	1983-01-17	<input type="checkbox"/>
233	Emirates	2019	994432 Grace Shaye	1968-11-23	<input type="checkbox"/>
234	Emirates	2019	760655 Tiffany Mabrey	1992-05-19	<input type="checkbox"/>
235	Emirates	2019	344311 Claire Miller	1996-04-03	<input type="checkbox"/>
236	Emirates	2019	457664 Emmet Bradley	1976-08-15	<input type="checkbox"/>
237	Emirates	2019	142421 Richard McKeon	1980-11-11	<input type="checkbox"/>
238	Emirates	2019	702470 Samuel L Jackson	1948-12-21	<input type="checkbox"/>
239	Emirates	6019	994432 Grace Shaye	1968-11-23	<input type="checkbox"/>
240	Emirates	6019	760655 Tiffany Mabrey	1992-05-19	<input type="checkbox"/>

241	Emirates	6019	344311 Claire Miller	1996-04-03	<input type="checkbox"/>
242	Emirates	6019	457664 Emmet Bradley	1976-08-15	<input type="checkbox"/>
243	Emirates	6019	142421 Richard McKeon	1980-11-11	<input type="checkbox"/>
244	Emirates	6019	702470 Samuel L Jackson	1948-12-21	<input type="checkbox"/>
245	Emirates	7321	446623 Donna Walker	1994-07-18	<input type="checkbox"/>
246	Emirates	7321	856663 Samantha Pillard	1990-04-09	<input type="checkbox"/>
247	Emirates	7321	160158 Scott G Edwards	1980-12-12	<input type="checkbox"/>
248	Emirates	7321	156019 Eric V Shulman	1976-11-11	<input checked="" type="checkbox"/>
249	Emirates	7321	264637 Kim Mantle	1978-04-08	<input type="checkbox"/>
250	Emirates	7321	964166 Andrew Keller	1977-07-07	<input type="checkbox"/>
251	Emirates	7321	625091 Erin Hein	1985-11-11	<input type="checkbox"/>
252	Emirates	9898	446623 Donna Walker	1994-07-18	<input type="checkbox"/>
253	Emirates	9898	856663 Samantha Pillard	1990-04-09	<input type="checkbox"/>
254	Emirates	9898	160158 Scott G Edwards	1980-12-12	<input type="checkbox"/>
255	Emirates	9898	156019 Eric V Shulman	1976-11-11	<input checked="" type="checkbox"/>
256	Emirates	9898	264637 Kim Mantle	1978-04-08	<input type="checkbox"/>
257	Emirates	9898	964166 Andrew Keller	1977-07-07	<input type="checkbox"/>
258	Emirates	9898	625091 Erin Hein	1985-11-11	<input type="checkbox"/>
259	Japan	2511	446623 Donna Walker	1994-07-18	<input type="checkbox"/>
260	Japan	2511	856663 Samantha Pillard	1990-04-09	<input type="checkbox"/>
261	Japan	2511	160158 Scott G Edwards	1980-12-12	<input type="checkbox"/>
262	Japan	2511	156019 Eric V Shulman	1976-11-11	<input checked="" type="checkbox"/>
263	Japan	2511	264637 Kim Mantle	1978-04-08	<input type="checkbox"/>
264	Japan	2511	964166 Andrew Keller	1977-07-07	<input type="checkbox"/>
265	Japan	2511	625091 Erin Hein	1985-11-11	<input type="checkbox"/>
266	Korean Air	2751	446623 Donna Walker	1994-07-18	<input type="checkbox"/>
267	Korean Air	2751	856663 Samantha Pillard	1990-04-09	<input type="checkbox"/>
268	Korean Air	2751	160158 Scott G Edwards	1980-12-12	<input type="checkbox"/>
269	Korean Air	2751	156019 Eric V Shulman	1976-11-11	<input checked="" type="checkbox"/>
270	Korean Air	2751	264637 Kim Mantle	1978-04-08	<input type="checkbox"/>
271	Korean Air	2751	964166 Andrew Keller	1977-07-07	<input type="checkbox"/>
272	Korean Air	2751	625091 Erin Hein	1985-11-11	<input type="checkbox"/>
273	Singapore	1211	994432 Grace Shay	1968-11-23	<input type="checkbox"/>
274	Singapore	1211	760655 Tiffany Mabrey	1992-05-19	<input type="checkbox"/>
275	Singapore	1211	344311 Claire Miller	1996-04-03	<input type="checkbox"/>
276	Singapore	1211	457664 Emmet Bradley	1976-08-15	<input type="checkbox"/>
277	Singapore	1211	142421 Richard McKeon	1980-11-11	<input type="checkbox"/>
278	Singapore	1211	702470 Samuel L Jackson	1948-12-21	<input type="checkbox"/>
279	Singapore	2020	673349 Beth Summers	1997-05-16	<input type="checkbox"/>
280	Singapore	2020	565331 Christina Stocker	1989-03-24	<input type="checkbox"/>
281	Singapore	2020	915091 Sam Oyana	1980-09-01	<input type="checkbox"/>
282	Singapore	2020	643034 Mick Jager	1983-03-20	<input type="checkbox"/>
283	Singapore	2020	563633 Kenny Koi	1979-09-05	<input type="checkbox"/>
284	Singapore	8821	994432 Grace Shay	1968-11-23	<input type="checkbox"/>
285	Singapore	8821	760655 Tiffany Mabrey	1992-05-19	<input type="checkbox"/>
286	Singapore	8821	344311 Claire Miller	1996-04-03	<input type="checkbox"/>
287	Singapore	8821	457664 Emmet Bradley	1976-08-15	<input type="checkbox"/>
288	Singapore	8821	142421 Richard McKeon	1980-11-11	<input type="checkbox"/>
289	Singapore	8821	702470 Samuel L Jackson	1948-12-21	<input type="checkbox"/>
290	United	1122	994432 Grace Shay	1968-11-23	<input type="checkbox"/>
291	United	1122	760655 Tiffany Mabrey	1992-05-19	<input type="checkbox"/>
292	United	1122	344311 Claire Miller	1996-04-03	<input type="checkbox"/>
293	United	1122	457664 Emmet Bradley	1976-08-15	<input type="checkbox"/>
294	United	1122	142421 Richard McKeon	1980-11-11	<input type="checkbox"/>
295	United	1122	702470 Samuel L Jackson	1948-12-21	<input type="checkbox"/>
296	United	1128	845421 Finn Donalds	1992-06-13	<input type="checkbox"/>
297	United	1128	737462 Darcy May	1996-02-12	<input type="checkbox"/>
298	United	1128	851951 Tom Hanks	1956-07-09	<input type="checkbox"/>
299	United	1128	656463 Linda Hill	1981-12-21	<input type="checkbox"/>
300	United	1128	656321 Penelope Griff	1980-06-02	<input type="checkbox"/>
301	United	1248	446623 Donna Walker	1994-07-18	<input type="checkbox"/>
302	United	1248	856663 Samantha Pillard	1990-04-09	<input type="checkbox"/>
303	United	1248	160158 Scott G Edwards	1980-12-12	<input type="checkbox"/>
304	United	1248	156019 Eric V Shulman	1976-11-11	<input checked="" type="checkbox"/>
305	United	1248	264637 Kim Mantle	1978-04-08	<input type="checkbox"/>
306	United	1248	964166 Andrew Keller	1977-07-07	<input type="checkbox"/>
307	United	1248	625091 Erin Hein	1985-11-11	<input type="checkbox"/>
308	United	1486	673349 Beth Summers	1997-05-16	<input type="checkbox"/>
309	United	1486	565331 Christina Stocker	1989-03-24	<input type="checkbox"/>
310	United	1486	915091 Sam Oyana	1980-09-01	<input type="checkbox"/>
311	United	1486	643034 Mick Jager	1983-03-20	<input type="checkbox"/>
312	United	1486	563633 Kenny Koi	1979-09-05	<input type="checkbox"/>
313	United	1992	183328 John Jones	1973-12-13	<input type="checkbox"/>
314	United	1992	952493 Hal Jordan	1980-07-18	<input type="checkbox"/>
315	United	1992	184937 Wally West	1986-04-28	<input type="checkbox"/>
316	United	1992	172450 Bruce Wayne	1976-07-03	<input type="checkbox"/>
317	United	1992	194385 Clark Kent	1978-03-21	<input type="checkbox"/>
318	United	1992	245694 Diana Prince	1983-01-17	<input type="checkbox"/>

5. The trips that are available if you do make one stop over

select distinct a.airlineName as "Airline Name", a.tailNumber as "Tail Number", a.flightNumber as "Flight Number", a.departureAirport as "Departing From", a.arrivalAirport as "Arriving to", b.arrivalAirport as "Next Stop" from Flight a INNER join Flight b ON a.ARRIVALAIRPORT = b.DEPARTUREAIRPORT and a.airlineName = b.airlineName order by a.tailNumber

#	Airline Name	Tail Number	Flight Number	Departing From	Arriving to	Next Stop
1	Bay Envoy	BRZ7	7885 LGB	ONT	LGB	ONT
2	Bay Envoy	BRZ7	7886 ONT	LGB	ONT	LAX
3	American	C10	4087 LAX	MMH	LAX	LAS
4	American	C10	4088 MMH	LAX	MMH	MYR
5	American	C10	4088 MMH	LAX	MMH	MYR
6	American	C10	4088 MMH	LAX	MMH	MYR
7	American	C10	4089 MMH	LAX	MMH	MYR
8	American	C10	4089 MMH	LAX	MMH	MYR
9	American	C10	4089 MMH	LAX	MMH	MYR
10	American	C11	4321 DFW	LGB	DFW	LGB
11	American	C11	4322 LGB	DFW	LGB	LAS
12	American	C11	6785 ITO	LAX	MMH	MYR
13	American	C11	6785 ITO	LAX	MMH	MYR
14	American	C9	4167 LAS	LAX	LAS	MMH
15	American	C9	4167 LAS	LAX	LAS	MMH
16	American	C9	4167 LAS	LAX	MYR	LAX
17	American	C9	4168 LAX	LAX	LAS	MMH
18	American	C9	4927 MYR	LAX	MYR	LAX
19	American	C9	4927 MYR	LAX	MYR	LAX
20	American	C9	4927 MYR	LAX	MYR	LAX
21	American	C9	4928 LAX	MYR	LAX	LAX
22	American	C9	4929 LAX	MYR	LAX	LAX
23	CA West Coast	EZ34	4566 LAX	ONT	LAX	ONT
24	CA West Coast	EZ34	4567 ONT	LAX	ONT	XSP
25	Singapore	TTRL	1211 XSP	DXB	XSP	DXB
26	Singapore	TTRL	8821 DXB	XSP	DXB	ACV
27	United	ZMC-2	1128 ONT	ONT	DXB	LAX
28	United	ZMC-2	1128 ONT	ONT	DXB	LGB
29	United	ZMC-2	1128 ONT	ONT	ONT	ONT
30	United	ZMC-2	1128 ONT	ONT	ONT	ONT
31	United	ZMC-2	1128 ONT	ONT	ONT	ONT
32	Emirates	ZZC-4	7321 DXB	GDL	DXB	GDL
33	Emirates	ZZC-4	9898 GDL	DXB	GDL	GDL

6. Management reports of mifly information:

a. arriving flights per city

select city, count(arrivalairport) as "Arriving Flights" from airport natural join flight where arrivalairport = abbreviation group by city order by "Arriving Flights" desc;

#	CITY	Arriving Flights
1	Los Angeles	7
2	Ontario	6
3	Las Vegas	5
4	Mammoth Lakes	4
5	Long Beach	4
6	Hilo	4
7	Dubai	4
8	Tokyo	3
9	Guadalajara	3
10	Boulder City	3
11	Seoul	2
12	Monterey	2
13	Manchester	2
14	Arcata	2
15	Seltar	1
16	Dallas	1

b. departing flights per city

select city, count(departureAirport) as "Departing Flights" from airport natural join flight where departureAirport = abbreviation group by city order by "Departing Flights" desc;

#	CITY	Departing Flights
1	Monterey	16
2	Ontario	12
3	Los Angeles	5
4	Seltar	3
5	Las Vegas	3
6	Dubai	3
7	Tokyo	2
8	Seoul	2
9	Mammoth Lakes	2
10	Long Beach	2
11	Hilo	1
12	Guadalajara	1
13	Dallas	1

c. list of airlines in each service category

select * from airline order by flightcategory;

#	AIRLINENAME	HEADQUARTERSCITY	FLIGHTCATEGORY
1	United	Chicago	Domestic
2	Spirit	Miramar	Domestic
3	South West	Dallas	Domestic
4	JetBlue	Long Island	Domestic
5	Hawaiian	Honolulu	Domestic
6	Delta	Atlanta	Domestic
7	Allegiant	Las Vegas	Domestic
8	Alaska	Seattle	Domestic
9	American	Fort Worth	Domestic
10	Japan	Tokyo	International
11	Korean Air	Seoul	International
12	Cathay Pacific	Hong Kong	International
13	Brussel	Diegem	International
14	Singapore	Singapore	International
15	Emirates	Dubai	International
16	Bay Envoy	Los Angeles	Local
17	CA West Coast	Los Angeles	Local

d. crews that fly multiple flights in a single day

select crewname, dates, count(dates) as "Number of Flights" from flightCrew natural join flightInstance group by crewname, dates having count(dates) > 1 order by "Number of Flights" desc;

#	CREWNAME	DATES	Number of Flights
1	Jet 7	2020-12-20	3
2	Snakes	2020-05-07	2
3	Alpha	2020-06-23	2
4	Alpha	2020-05-16	2

7. A list of all incident reports by flight

select incidentType as "IncidentType", description as "Description", reporterFAA as "Reporter FAA", involvedFAA as "Involved FAA", airlineName as "Airline Name", flightNumber as "Flight Number", dates as "Date of Flight" from IncidentReport

#	IncidentType	Description	Reporter FAA	Involved FAA	Airline Name	Flight Number	Date of Flight
1	Injury	Crew Member fell and bumped their head o...	344311	702470 American			4927 2020-05-04
2	Injury	Crew Member was punched in the face by a...	760655	142421 Delta			1691 2020-06-17
3	Health	Crew Member was bitten by a snake smug...	994432	702470 American			6785 2006-08-16
4	Health	Crew Member felt ill mid flight to destination	915091	643034 Alaska			5411 2020-12-20
5	Health	Crew Member had a strong fever at the end ...	184937	183328 United			1992 2020-06-14

8. Flights that are scheduled to depart in three days

select airlineName as "Airline Name", flightNumber as "Flight Number", dates as "Date of Flight", actualDepartureTime as "Actual Departure Time", actualArrivalTime as "Actual Arrival Time", crewName as "Crew Name" from flightInstance where dates = CAST({fn
TIMESTAMPADD (SQL_TSI_DAY, 3, CURRENT_TIMESTAMP) } AS DATE);

#	Airline Name	Flight Number	Date of Flight	Actual Departure Time	Actual Arrival Time	Crew Name
1	American	4167	2020-05-08	01:07:00	02:26:00	Snakes
2	American	4168	2020-05-08	03:33:00	04:09:00	Snakes

9. All flights that arrived in the busiest airport in the last week

select * from flightInstance natural join flight where arrivalAirport in (select abbreviation from ((airport inner join flight on abbreviation = arrivalAirport or abbreviation = departureAirport) natural join flightInstance) where dates between CAST({fn
TIMESTAMPADD(SQL_TSI_DAY,-7,CURRENT_TIMESTAMP)} AS DATE) and CAST({fn
TIMESTAMPADD(SQL_TSI_DAY,-1,CURRENT_TIMESTAMP)}AS DATE) group by
abbreviation Order by COUNT(Dates) DESC FETCH FIRST ROW ONLY) and dates between
CAST({fn TIMESTAMPADD(SQL_TSI_DAY,-7,CURRENT_TIMESTAMP)} AS DATE) and
CAST({fn TIMESTAMPADD(SQL_TSI_DAY,-1,CURRENT_TIMESTAMP)}AS DATE);

#	AIRLINE NAME	FLIGHT NUMBER	DATE	ACTUAL DEPARTURE TIME	ACTUAL ARRIVAL TIME	STATUS	CREW NAME	DEPARTURE TIME	ARRIVAL TIME	ETZM	TAIL NUMBER	LAX	DEPARTURE AIRPORT	ONT	ARRIVAL AIRPORT
1	CA West Coast	4566	2020-05-01	12:45:00	14:30:00	Stops	Hoppers	10:00:00	12:20:00	ETZM		LAX		ONT	
2	Bay Envoy	7885	2020-05-01	12:00:00	13:30:00			08:00:00	08:40:00	BRZ7		LAX		ONT	

10. Flights that departed more than 30 minutes late.

select flightNumber as "Flight Number", airlineName as "Airline Name", departureTime as "Departure Time", actualDepartureTime as "Actual Departure Time" from Flight natural join flightInstance where {fn TIMESTAMPDIFF(SQL_TSI_MINUTE, departureTime, actualDepartureTime)} > 30;

#	Flight Number	Airline Name	Departure Time	Actual Departure Time
1	2511	Japan	12:00:00	12:35:00
2	2751	Korean Air	12:00:00	13:35:35
3	1596	Cathay Pacific	12:00:00	14:55:15
4	1909	Brussel	12:00:00	16:30:15
5	4566	CA West Coast	10:00:00	12:45:00
6	4567	CA West Coast	11:00:00	13:35:00
7	7885	Bay Envoy	08:00:00	12:00:00
8	7886	Bay Envoy	09:20:00	12:00:00

11. Individually designed queries (two per team member)

a. Display all flights that were late. The results should show that all late flights with a WIFI charge have been waived.

select flightNumber as "Flight Number",
airlineName as "Airline Name",
departureTime as "Departure Time",
actualDepartureTime as "Actual Departure Time",
itemName as "ItemName",
cost as "Cost"
from Flight natural join flightInstance natural join chargedItem
where {fn TIMESTAMPDIFF(SQL_TSI_MINUTE, departureTime, actualD
epartureTime)} > 1
order by itemName;

#	Flight Number	Airline Name	Departure Time	Actual Departure Time	ItemName	Cost
1	7886	Bay Envoy	09:20:00	12:00:00	Meal	100
2	7885	Bay Envoy	08:00:00	12:00:00	Meal	100
3	4567	CA West Coast	11:00:00	13:35:00	Meal	100
4	4566	CA West Coast	10:00:00	12:45:00	Meal	100
5	1909	Brussel	12:00:00	16:30:15	No Extra Charges	0
6	1596	Cathay Pacific	12:00:00	14:55:15	No Extra Charges	0
7	2751	Korean Air	12:00:00	13:35:35	No Extra Charges	0
8	2511	Japan	12:00:00	12:35:00	No Extra Charges	0
9	7886	Bay Envoy	09:20:00	12:00:00	WIFI	0
10	4566	CA West Coast	10:00:00	12:45:00	WIFI	0
11	4929	American	15:00:00	15:05:00	WIFI	0
12	4928	American	15:00:00	15:05:00	WIFI	0
13	4168	American	03:30:00	03:33:00	Water	1.5
14	4167	American	01:00:00	01:07:00	Water	1.5
15	4929	American	15:00:00	15:05:00	Water	1.5
16	4928	American	15:00:00	15:05:00	Water	1.5

b. Display all flights that are over 9 hours long. The results should show that all international flights over 9 hours with a meal charge have been waived.

```
SELECT airlineName as "Airline Name",
       flightNumber as "Flight Number",
       dates as "Date",
       itemName as "Item Name",
       cost as "Cost",
       flightCategory as "Flight Category",
       departureTime as "Departure Time",
       arrivalTime as "Arrival Time"
  from Flight natural join Airline natural join chargedItem where {fn
TIMESTAMPDIFF(SQL_TSI_MINUTE, departureTime,arrivalTime)}>540
Order by itemName;
```

#	Airline Name	Flight Number	Date	Item Name	Cost	Flight Category	Departure Time	Arrival Time
1	Singapore	8821	2020-04-29	Meal	0	International	10:00:00	22:15:05
2	Singapore	1211	2020-04-28	Meal	0	International	09:00:00	21:15:05
3	Emirates	9898	2020-04-29	Meal	0	International	09:00:00	20:10:05
4	Emirates	7321	2020-04-28	Meal	0	International	10:00:00	21:10:05
5	Alaska	5213	2020-05-26	Pillow	15	Domestic	10:00:00	20:05:05
6	Alaska	5212	2020-05-25	Pillow	15	Domestic	10:00:00	20:05:05
7	Alaska	5211	2020-05-24	Pillow	15	Domestic	10:00:00	20:05:05

c. Display all flights that charge extra on meals. Verify that all meals for local flights are waived to 0. For the table, display flight category, airline name, flight number, item name, and cost. Sort by flight category in ascending order.

```
select flightCategory as "Flight Category", airlineName as "Airline Name",
       flightNumber as "Flight Number", itemName as "Item Name", cost as "Cost"
  from Flight natural join Airline natural join chargedItem where itemName =
'Meal' order by flightCategory
```

#	Flight Category	Airline Name	Flight Number	Item Name	Cost
1	International	Singapore	8821	Meal	100
2	International	Singapore	1211	Meal	100
3	International	Emirates	9898	Meal	100
4	International	Emirates	7321	Meal	100
5	Local	CA West Coast	4567	Meal	0
6	Local	CA West Coast	4566	Meal	0
7	Local	Bay Envoy	7886	Meal	0
8	Local	Bay Envoy	7885	Meal	0

d. Display all flights that are longer than 6 hours. Confirm that flights that are longer than 6 hours and have extra charges on pillows are waived. Include airline name, flight number, departure time, arrival time, tail number, departure airport, arrival airport, item name, and cost.

select airlineName as "Airline Name", flightNumber as "Flight Number", departureTime as "Departure Time", arrivalTime as "Arrival Time", tailNumber as "Tail Number", departureAirport as "Departure Airport", arrivalAirport as "Arrival Airport", itemName as "Item Name", cost as "Cost" from Flight natural join chargedItem where {fn TIMESTAMPDIFF(SQL_TSI_MINUTE, departureTime, arrivalTime)} > 360;

#	Airline Name	Flight Number	Departure Time	Arrival Time	Tail Number	Departure Airport	Arrival Airport	Item Name	Cost
1	Alaska	5211	10:00:00	20:05:00	MW248	MVR	ONT	Pillow	0
2	Alaska	5212	10:00:00	20:05:00	MW248	MVR	ONT	Pillow	0
3	Alaska	5213	10:00:00	20:05:00	MW250	MVR	ONT	Pillow	0
4	Alaska	5195	12:00:00	19:25:00	MW248	MVR	MMH	Pillow	0
5	Alaska	5196	12:00:00	19:25:00	MW248	MVR	MMH	Pillow	0
6	Alaska	5197	12:00:00	19:25:00	MW248	MVR	MMH	Pillow	0
7	Emirates	7321	10:00:00	20:05:00	Z2C-4	DXB	GDL	Meal	100
8	Emirates	9888	08:00:00	19:05:00	Z2C-4	GDL	DXB	Meal	100
9	Singapore	1211	10:00:00	19:05:00	TTRL	XSP	DVB	Meal	100
10	Singapore	8821	10:00:00	20:05:00	TTRL	DVB	XSP	Meal	100

e. Search for crew members marked for evaluation.

select * from crewmember where evaluate = 'true';

#	FAANUMBER	MEMBERNAME	DOB	EVALUATE	CREWNAME
1	702470	Samuel L Jackson	1948-12-21	<input checked="" type="checkbox"/>	Snakes
2	156019	Eric V Shulman	1976-11-11	<input checked="" type="checkbox"/>	Alpha

f. find planned flights between 10 and 20 hours.

```

select {fn TIMESTAMPDIFF(SQL_TSI_hour, departureTime, arrivalTime)} as
"Flight Hours", flight.* from flight where {fn TIMESTAMPDIFF(SQL_TSI_MINUTE,
departureTime, arrivalTime)} between 600 and 1200;

```

#	Flight Hours	AIRLINENAME	FLIGHTNUMBER	DEPARTURETIME	ARRIVALTIME	TAILNUMBER	DEPARTUREAIRPORT	ARRIVALAIRPORT
1	10	Alaska	5211	10:00:00	20:05:05	MW248	MYR	ONT
2	10	Alaska	5212	10:00:00	20:05:05	MW249	MYR	ONT
3	10	Alaska	5213	10:00:00	20:05:05	MW250	MYR	ONT
4	11	Emirates	7321	10:00:00	21:10:05	ZZC-4	DXB	GDL
5	11	Emirates	9898	09:00:00	20:10:05	ZZC-4	GDL	DXB
6	12	Singapore	1211	09:00:00	21:15:05	TTRL	XSP	DXB
7	12	Singapore	8821	10:00:00	22:15:05	TTRL	DXB	XSP