Q. 1 Display all information in the tables EMP and DEPT.

Select * from employees;

	employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id	reg
	100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	NULL	NULL	90	East
	101	Neena	Kochhar	NKOCHHAR	515.123.4568	1989-09-21	AD_VP	17000.00	NULL	100	90	Nort
	102	Lex	De Haan	LDEHAAN	515.123.4569	1993-01-13	AD_VP	17000.00	NULL	100	90	NULL
	103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-01-03	IT PROG	9000.00	NULL	102	60	East
	104	Bruce	Ernst	BERNST	590.423.4568	1991-05-21	IT_PROG	6000.00	NULL	103	60	NULL
	105	David	Austin	DAUSTIN	590,423,4569	1997-06-25	IT_PROG	4800.00	NULL	103	60	NULL
-	106	Valli	Pataballa			1998-02-05	IT_PROG	4800.00	NULL	103	60	Sou
-				VPATABAL	590.423.4560		_		NULL			
-	107	Diana	Lorentz	DLORENTZ	590.423.5567	1999-02-07	IT_PROG	4200.00	NULL	103	60	Sou
	108	Nancy	Greenberg	NGREENBE	515.124.4569	1994-08-17	FI_MGR	12000.00		101	100	Sou
	109	Daniel	Faviet	DFAVIET	515.124.4169	1994-08-16	FI_ACCOUNT	9000.00	NULL	108	100	NUL
	110	John	Chen	JCHEN	515.124.4269	1997-09-28	FI_ACCOUNT	8200.00	NULL	108	100	NUL
	111	Ismael	Sciarra	ISCIARRA	515.124.4369	1997-09-30	FI_ACCOUNT	7700.00	NULL	108	100	We
	112	Jose Manuel		JMURMAN	515.124.4469	1998-03-07	FI ACCOUNT	7800.00	NULL	108	100	NUL
1	113	Luis	Popp	LPOPP	515.124.4567	1999-12-07	FI_ACCOUNT	6900.00	NULL	108	100	NUL
-							_		NULL	100		10/-
-	114	Den	Raphaely	DRAPHEAL	515.127.4561	1994-12-07	PU_MAN	11000.00	NULL		30	We
_	115	Alexander	Khoo	AKHOO	515.127.4562	1995-05-18	PU_CLERK	3100.00		114	30	We
	116	Shelli	Baida	SBAIDA	515.127.4563	1997-12-24	PU_CLERK	2900.00	NULL	114	30	NUL
	117	Sigal	Tobias	STOBIAS	515.127.4564	1997-07-24	PU_CLERK	2800.00	NULL	114	30	We
	118	Guy	Himuro	GHIMURO	515.127.4565	1998-11-15	PU_CLERK	2600.00	NULL	114	30	We
1	119	Karen	Colmenares	KCOLMENA	515.127.4566	1999-08-10	PU_CLERK	2500.00	NULL	114	30	Ea
1	120	Matthew	Weiss	MWEISS	650.123.1234	1996-07-18	ST_MAN	8000.00	NULL	100	50	No
1	121	Adam	Fripp	AFRIPP	650.123.2234	1997-04-10	ST_MAN	8200.00	NULL	100	50	NUL
H							_		NULL			NUL
-	122	Payam	Kaufling	PKAUFLIN	650.123.3234	1995-05-01	ST_MAN	7900.00	NULL	100	50	
4	123	Shanta	Vollman	SVOLLMAN	650.123.4234	1997-10-10	ST_MAN	6500.00		100	50	So
	124	Kevin	Mourgos	KMOURGOS	650.123.5234	1999-11-16	ST_MAN	5800.00	NULL	100	50	NUL
J	125	Julia	Nayer	JNAYER	650.124.1214	1997-07-16	ST_CLERK	3200.00	NULL	120	50	Ea
	126	Irene	Mikkilineni	IMIKKILI	650.124.1224	1998-09-28	ST_CLERK	2700.00	NULL	120	50	No
1	127	James	Landry	JLANDRY	650.124.1334	1999-01-14	ST_CLERK	2400.00	NULL	120	50	We
J	128	Steven	Markle	SMARKLE	650.124.1434	2000-03-08	ST CLERK	2200.00	NULL	120	50	Ea
1	129	Laura	Bissot	LBISSOT	650.124.5234	1997-08-20	ST_CLERK	3300.00	NULL	121	50	Ea
+									NULL			NUI
-	130	Mozhe	Atkinson	MATKINSO	650.124.6234	1997-10-30	ST_CLERK	2800.00	NULL	121	50	
4	131	James	Marlow	JAMRLOW	650.124.7234	1997-02-16	ST_CLERK	2500.00		121	50	So
	132	TJ	Olson	TJOLSON	650.124.8234	1999-04-10	ST_CLERK	2100.00	NULL	121	50	Ea
ı	133	Jason	Mallin	JMALLIN	650.127.1934	1996-06-14	ST_CLERK	3300.00	NULL	122	50	So
	134	Michael	Rogers	MROGERS	650.127.1834	1998-08-26	ST_CLERK	2900.00	NULL	122	50	We
	135	Кі	Gee	KGEE	650.127.1734	1999-12-12	ST CLERK	2400.00	NULL	122	50	NUL
	and the same of the											
	employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id	re
1						hire_date 2000-01-29						_
	149	Eleni	Zlotkey	EZLOTKEY	011.44.1344	2000-01-29	SA_MAN	10500.00	0.20	100	80	Sou
	149 150	Eleni Peter	Zlotkey Tucker	EZLOTKEY PTUCKER	011.44.1344 011.44.1344	2000-01-29 1997-01-30	SA_MAN SA_REP	10500.00 10000.00	0.20 0.30	100 145	80 80	Sou
	149 150 151	Eleni Peter David	Zlotkey Tucker Bernstein	EZLOTKEY PTUCKER DBERNSTE	011.44.1344 011.44.1344 011.44.1344	2000-01-29 1997-01-30 1997-03-24	SA_MAN SA_REP SA_REP	10500.00 10000.00 9500.00	0.20 0.30 0.25	100 145 145	80 80 80	Sou Eas
	149 150 151 152	Eleni Peter David Peter	Zlotkey Tucker Bernstein Hall	EZLOTKEY PTUCKER DBERNSTE PHALL	011.44.1344 011.44.1344 011.44.1344 011.44.1344	2000-01-29 1997-01-30 1997-03-24 1997-08-20	SA_MAN SA_REP SA_REP SA_REP	10500.00 10000.00 9500.00 9000.00	0.20 0.30 0.25 0.25	100 145 145 145	80 80 80 80	Sou Eas Nor
	149 150 151 152 153	Eleni Peter David Peter Christopher	Zlotkey Tucker Bernstein Hall Olsen	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30	SA_MAN SA_REP SA_REP SA_REP SA_REP	10500.00 10000.00 9500.00 9000.00 8000.00	0.20 0.30 0.25 0.25 0.20	100 145 145 145 145	80 80 80 80 80	Sou Eas Nor Sou
	149 150 151 152	Eleni Peter David Peter	Zlotkey Tucker Bernstein Hall	EZLOTKEY PTUCKER DBERNSTE PHALL	011.44.1344 011.44.1344 011.44.1344 011.44.1344	2000-01-29 1997-01-30 1997-03-24 1997-08-20	SA_MAN SA_REP SA_REP SA_REP	10500.00 10000.00 9500.00 9000.00	0.20 0.30 0.25 0.25	100 145 145 145	80 80 80 80	Sou Eas Nor Sou
	149 150 151 152 153	Eleni Peter David Peter Christopher	Zlotkey Tucker Bernstein Hall Olsen	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09	SA_MAN SA_REP SA_REP SA_REP SA_REP	10500.00 10000.00 9500.00 9000.00 8000.00	0.20 0.30 0.25 0.25 0.20	100 145 145 145 145	80 80 80 80 80	Sou Eas Nor Sou
	149 150 151 152 153 154	Eleni Peter David Peter Christopher Nanette	Zlotkey Tucker Bernstein Hall Olsen Cambrault	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09	SA_MAN SA_REP SA_REP SA_REP SA_REP SA_REP	10500.00 10000.00 9500.00 9000.00 8000.00 7500.00	0.20 0.30 0.25 0.25 0.20	100 145 145 145 145 145 145	80 80 80 80 80 80	Nor Sou
	149 150 151 152 153 154 155 156	Eleni Peter David Peter Christopher Nanette Oliver	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault	PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09 1999-11-23 1996-01-30	SA_MAN SA_REP SA_REP SA_REP SA_REP SA_REP SA_REP SA_REP SA_REP SA_REP	10500.00 10000.00 9500.00 9000.00 8000.00 7500.00 7000.00	0.20 0.30 0.25 0.25 0.20 0.20 0.15	100 145 145 145 145 145 145 145	80 80 80 80 80 80 80	Nor Sou
	149 150 151 152 153 154 155 156 157	Eleni Peter David Peter Christopher Nanette Oliver Janette Patrick	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09 1999-11-23 1996-01-30 1996-03-04	SA_MAN SA_REP	10500.00 10000.00 9500.00 9500.00 9000.00 8000.00 7500.00 7000.00 10000.00 9500.00	0.20 0.30 0.25 0.25 0.20 0.20 0.15 0.35	100 145 145 145 145 145 145 145 145 146	80 80 80 80 80 80 80 80 80 80	Non Sou Non Sou Non Eas
	149 150 151 152 153 154 155 156 157 158	Eleni Peter David Peter Christopher Nanette Oliver Janette Patrick Allan	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY AMCEWEN	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09 1999-11-23 1996-01-30 1996-03-04 1996-08-01	SA_MAN SA_REP SA_REP SA_REP SA_REP SA_REP SA_REP SA_REP SA_REP SA_REP SA_REP SA_REP	10500.00 10000.00 9500.00 9500.00 9000.00 8000.00 7500.00 7000.00 10000.00 9500.00 9000.00	0.20 0.30 0.25 0.25 0.20 0.20 0.15 0.35 0.35	100 145 145 145 145 145 145 145 146 146 146	80 80 80 80 80 80 80 80 80 80 80	Nor Soul Rull Eas Eas We
	149 150 151 152 153 154 155 155 156 157 158 159	Eleni Peter David Peter Christopher Nanette Oliver Janette Patrick Allan Lindsey	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen Smith	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY AMCEWEN LSMITH	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345 011.44.1345 011.44.1345	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09 1999-11-23 1996-01-30 1996-03-04 1996-08-01 1997-03-10	SA_MAN SA_REP	10500.00 10000.00 9500.00 9000.00 8000.00 7500.00 7000.00 10000.00 9500.00 9000.00 8000.00	0.20 0.30 0.25 0.25 0.20 0.20 0.15 0.35 0.35 0.35 0.30	100 145 145 145 145 145 145 145 146 146 146	80 80 80 80 80 80 80 80 80 80 80	Nor Sou
	149 150 151 152 153 154 155 156 157 158 159 160	Eleni Peter David Peter Christopher Nanette Oliver Janette Patrick Allan Lindsey Louise	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen Smith Doran	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY AMCEWEN LSMITH LDORAN	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09 1999-11-23 1996-01-30 1996-03-04 1996-08-01 1997-03-10	SA MAN SA REP	10500.00 10000.00 9500.00 9000.00 8000.00 7500.00 7000.00 10000.00 9500.00 9000.00 8000.00 7500.00	0.20 0.30 0.25 0.25 0.20 0.15 0.35 0.35 0.35 0.30 0.30	100 145 145 145 145 145 145 145 146 146 146 146	80 80 80 80 80 80 80 80 80 80 80 80 80 8	Non Sour Non Eas Eas We Eas
	149 150 151 152 153 154 155 156 157 158 159 160 161	Eleni Peter David Peter Christopher Nanette Oliver Janette Patrick Allan Lindsey Louise Sarath	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen Smith Doran Sewall	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY AMCEWEN LSMITH LDORAN SSEWALL	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09 1999-11-23 1996-01-30 1996-03-04 1996-08-01 1997-03-10 1997-12-15 1998-11-03	SA MAN SA REP	10500.00 10000.00 9500.00 9500.00 9000.00 8000.00 7500.00 10000.00 9500.00 9000.00 8000.00 7500.00	0.20 0.30 0.25 0.25 0.20 0.15 0.35 0.35 0.35 0.35 0.30 0.30 0.25	100 145 145 145 145 145 145 145 146 146 146 146 146 146	80 80 80 80 80 80 80 80 80 80 80 80 80 8	Non- South Non- South Non- Routh East Wee
	149 150 151 152 153 154 155 156 157 158 159 160	Eleni Peter David Peter Christopher Nanette Oliver Janette Patrick Allan Lindsey Louise	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen Smith Doran	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY AMCEWEN LSMITH LDORAN	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09 1999-11-23 1996-01-30 1996-03-04 1996-08-01 1997-03-10	SA MAN SA REP	10500.00 10000.00 9500.00 9000.00 8000.00 7500.00 7000.00 10000.00 9500.00 9000.00 8000.00 7500.00	0.20 0.30 0.25 0.25 0.20 0.15 0.35 0.35 0.35 0.30 0.30	100 145 145 145 145 145 145 145 146 146 146 146	80 80 80 80 80 80 80 80 80 80 80 80 80 8	Non- South Non- South Non- Routh East Wee
	149 150 151 152 153 154 155 156 157 158 159 160 161	Eleni Peter David Peter Christopher Nanette Oliver Janette Patrick Allan Lindsey Louise Sarath	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen Smith Doran Sewall	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY AMCEWEN LSMITH LDORAN SSEWALL	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09 1999-11-23 1996-01-30 1996-08-01 1997-03-10 1997-12-15 1998-11-03	SA MAN SA REP	10500.00 10000.00 9500.00 9500.00 9000.00 8000.00 7500.00 10000.00 9500.00 9000.00 8000.00 7500.00	0.20 0.30 0.25 0.25 0.20 0.15 0.35 0.35 0.35 0.35 0.30 0.30 0.25	100 145 145 145 145 145 145 145 146 146 146 146 146 146	80 80 80 80 80 80 80 80 80 80 80 80 80 8	Non South Non So
	149 150 151 152 153 154 155 156 157 158 159 160 161 162	Eleni Peter David Peter Christopher Nanette Oliver Janette Patrick Allan Lindsey Louise Sarath Clara	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen Smith Doran Sewall Vishney	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY AMCEWEN LSMITH LDORAN SSEWALL CVISHNEY	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09 1999-11-23 1996-01-30 1996-03-04 1997-03-10 1997-12-15 1998-11-03 1997-11-11	SA MAN SA REP	10500.00 10000.00 9500.00 9500.00 9000.00 8000.00 7500.00 10000.00 9500.00 9000.00 8000.00 7500.00 7500.00 10500.00	0.20 0.30 0.25 0.25 0.20 0.15 0.35 0.35 0.35 0.30 0.30 0.25	100 145 145 145 145 145 145 146 146 146 146 146 146 146 146	80 80 80 80 80 80 80 80 80 80 80 80 80 8	Non South Non So
	149 150 151 152 153 154 155 156 157 158 159 160 161 162 163	Eleni Peter David Peter Christopher Nanette Oliver Janette Patrick Allan Lindsey Louise Sarath Clara Danielle	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen Smith Doran Sewall Vishney Greene	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY AMCEWEN LSMITH LDORAN SSEWALL CVISHNEY DGREENE	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09 1999-11-23 1996-01-30 1996-03-04 1997-03-10 1997-12-15 1998-11-03 1997-11-11 1999-03-19 2000-01-24	SA MAN SA REP	10500.00 10000.00 9500.00 9500.00 9000.00 8000.00 7000.00 10000.00 9500.00 9000.00 8000.00 7500.00 7000.00 10500.00 9500.00	0.20 0.30 0.25 0.25 0.20 0.15 0.35 0.35 0.35 0.30 0.30 0.25 0.25	100 145 145 145 145 145 145 146 146 146 146 146 146 146 146 147	80 80 80 80 80 80 80 80 80 80 80 80 80 8	Non South Non East Wee East Non East Wee East Non East East Non East East Non East East East East East East East East
	149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165	Eleni Peter David Peter Christopher Nanette Oliver Janette Patrick Allan Lindsey Louise Sarath Clara Danielle Mattea David	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen Smith Doran Sewall Vishney Greene Marvins Lee	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY AMCLEY LDORAN SSEWALL CVISHNEY DGREENE MMARVINS DLEE	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1346 011.44.1346	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-03-30 1996-01-30 1996-03-04 1996-03-04 1996-03-04 1997-03-10 1997-12-15 1998-11-03 1997-11-11 1999-03-19 2000-01-24 2000-02-23	SA MAN SA REP	10500.00 10000.00 9500.00 9500.00 9000.00 8000.00 7500.00 7000.00 9500.00 9000.00 7500.00 7500.00 7500.00 7500.00 7500.00 7500.00 7500.00 7500.00	0.20 0.30 0.25 0.25 0.20 0.15 0.35 0.35 0.35 0.30 0.30 0.25 0.15	100 145 145 145 145 145 145 146 146 146 146 146 147 147 147	80 80 80 80 80 80 80 80 80 80 80 80 80 8	Sou East Not Sou East We East Sou We Rout Not Not Not Not Not Not Not Not Not No
	149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166	Eleni Peter David Peter Christopher Nanette Oliver Janette Patrick Allan Lindsey Louise Sarath Clara Danielle Mattea David Sundar	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen Smith Doran Sewall Vishney Greene Marvins Lee Ande	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY AMCEWEN LSMITH LDORAN SSEWALL CVISHNEY DGREENE MMARVINS DLEE SANDE	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1346 011.44.1346 011.44.1346 011.44.1346	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09 1999-11-23 1996-01-30 1996-03-04 1996-08-01 1997-03-10 1997-12-15 1998-11-03 1997-11-11 1999-03-19 2000-01-24 2000-02-23 2000-03-24	SA MAN SA REP	10500.00 10000.00 9500.00 9500.00 9500.00 7500.00 7500.00 7000.00 9500.00 9500.00 7500.00 7500.00 9500.00 9500.00 9500.00 9500.00 9500.00 9500.00 9500.00	0.20 0.30 0.25 0.25 0.20 0.15 0.35 0.35 0.35 0.30 0.30 0.30 0.25 0.15 0.15 0.10 0.10	100 145 145 145 145 145 145 146 146 146 146 146 147 147 147	80 80 80 80 80 80 80 80 80 80 80 80 80 8	Non
	149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167	Eleni Peter David Peter Christopher Nanette Oliver Janette Patrick Allan Lindsey Louise Sarath Clara Danielle Mattea David Sundar Amit	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen Smith Doran Sewall Vishney Greene Marvins Lee Ande Banda	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY AMCEWEN LSMITH LDORAN SSEWALL CVISHNEY DGREENE MMARVINS DLEE SANDE ABANDA	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1346	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09 1999-11-23 1996-01-30 1996-03-04 1996-08-01 1997-03-10 1997-12-15 1998-11-03 1997-11-11 1999-03-19 2000-01-24 2000-02-23 2000-03-24 2000-04-21	SA MAN SA REP	10500.00 10000.00 9500.00 9500.00 9500.00 7500.00 7500.00 7000.00 9500.00 9500.00 7500.00 7500.00 7500.00 7500.00 7500.00 7500.00 7500.00 7500.00 7500.00 7500.00 7500.00 7500.00	0.20 0.30 0.25 0.25 0.20 0.15 0.35 0.35 0.35 0.30 0.25 0.10 0.10 0.10	100 145 145 145 145 145 145 146 146 146 146 146 147 147 147 147	80 80 80 80 80 80 80 80 80 80 80 80 80 8	Non Non Non Sou
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	149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170	Eleni Peter David Peter Christopher Nanette Oliver Janette Patrick Allan Lindsey Louise Sarath Clara Danielle Mattea David Sundar Amit Lisa Harrison Tayler	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen Smith Doran Sewall Vishney Greene Marvins Lee Ande Banda Ozer Bloom Fox	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULL JKING PSULL LOGRAN SSEWALL CVISHNEY DGREENE MMARVINS DLEE SANDE ABANDA LOZER HBLOOM TFOX	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1343 011.44.1343	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09 1999-11-23 1996-01-30 1996-03-04 1996-08-01 1997-03-10 1997-12-15 1998-11-03 1997-11-11 1999-03-19 2000-01-24 2000-02-23 2000-04-21 1997-03-11 1997-03-11	SA MAN SA REP	10500.00 10000.00 9500.00 9500.00 9500.00 9500.00 7500.00 7500.00 9500.00 9500.00 7500.00 7500.00 7500.00 7500.00 7500.00 7500.00 6400.00 6400.00 6200.00 11500.00 9600.00	0.20 0.30 0.25 0.25 0.20 0.15 0.35 0.35 0.30 0.30 0.30 0.15 0.10 0.10 0.10 0.10 0.10 0.10 0.1	100 145 145 145 145 145 145 146 146 146 146 147 147 147 147 147 147 147 147	80 80 80 80 80 80 80 80 80 80 80 80 80 8	South North South North
	149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171	Eleni Peter David Peter Christopher Nanette Oliver Janette Patrick Allan Lindsey Louise Sarath Clara Danielle Mattea David Sundar Amit Lisa Harrison Tayler William	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen Smith Doran Sewall Vishney Greene Marvins Lee Ande Banda Ozer Bloom Fox Smith Bates	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY AMCEWEN LSMITH LDORAN SSEWALL CVISHNEY DGREENE MARVINS DLEE SANDE ABANDA LOZER HBLOOM TFOX WSMITH EBATES	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09 1999-11-23 1996-01-30 1996-03-04 1996-08-01 1997-03-10 1997-12-15 1998-11-03 1997-11-11 1999-03-19 2000-01-24 2000-02-23 2000-04-21 1997-03-11 1997-03-11 1998-01-24 1999-02-23 1998-01-24	SA MAN SA REP	10500.00 10000.00 9500.00 9500.00 9500.00 9500.00 7500.00 7500.00 9500.00 9500.00 7500.00 7500.00 9500.00 9500.00 9500.00 9500.00 10500.00 6400.00 6400.00 6200.00 11500.00 10500.00 97400.00 7400.00 7300.00	0.20 0.30 0.25 0.25 0.20 0.15 0.35 0.35 0.35 0.35 0.30 0.20 0.15 0.10 0.10 0.10 0.10 0.10 0.25 0.25 0.25 0.25 0.25 0.15 0.10 0.10 0.10 0.10 0.10 0.10 0.1	100 145 145 145 145 145 145 146 146 146 146 147 147 147 147 147 147 148 148 148	80 80 80 80 80 80 80 80 80 80 80 80 80 8	Nor South Nor
	149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173	Eleni Peter David Peter Christopher Nanette Oliver Janette Patrick Allan Lindsey Louise Sarath Clara Danielle Mattea David Sundar Amit Lisa Harrison Tayler William Elizabeth Sundita	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen Smith Doran Sewall Vishney Greene Marvins Lee Ande Banda Ozer Bloom Fox Smith Bates Kumar	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY AMCEWEN LSMITH LDORAN SSEWALL CVISHNEY DGREENE MMARVINS DLEE SANDE ABANDA LOZER HBLOOM TFOX WSMITH EBATES SKUMAR	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09 1999-11-23 1996-01-30 1996-03-04 1996-08-01 1997-03-10 1997-12-15 1998-11-03 1997-11-11 1999-03-19 2000-01-24 2000-02-23 2000-03-24 2000-04-21 1998-03-23 1998-01-24 1999-02-23	SA MAN SA REP	10500.00 10000.00 9500.00 9500.00 9500.00 9500.00 7500.00 7500.00 9500.00 9500.00 9500.00 7500.00 7500.00 7500.00 7500.00 10500.00 6400.00 6200.00 11500.00 1000.00 7400.00 7400.00 7300.00 6100.00	0.20 0.30 0.25 0.25 0.20 0.15 0.35 0.35 0.35 0.30 0.25 0.15 0.10 0.10 0.10 0.10 0.10 0.25 0.20 0.21 0.15 0.20 0.20 0.21 0.15 0.10 0.10 0.10 0.10 0.10 0.10 0.1	100 145 145 145 145 145 145 146 146 146 146 146 147 147 147 147 147 147 147 148 148 148 148	80 80 80 80 80 80 80 80 80 80 80 80 80 8	Sou East North Nor
	149 150 151 151 152 153 154 155 156 157 158 159 160 161 161 162 163 164 165 166 167 168 169 170 171 172 173 174	Eleni Peter David Peter Christopher Nanette Oliver Janette Patrick Allan Lindsey Louise Sarath Clara Danielle Mattea David Sundar Amit Lisa Harrison Tayler William Elizabeth Sundita Ellen	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen Smith Doran Sewall Vishney Greene Marvins Lee Ande Banda Ozer Bloom Fox Smith Bates Kumar Abel	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY AMCEWEN LSMITH LDORAN SSEWALL CORSENE MMARVINS DLEE SANDE ABANDA LOZER HBLOOM TFOX WSMITH EBATES SKUMAR EABEL	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-03-30 1998-12-09 1999-11-23 1996-01-30 1996-03-04 1996-08-01 1997-03-10 1997-12-15 1998-11-03 1997-11-11 1999-03-19 2000-01-24 2000-04-21 1997-03-11 1998-03-23 1998-01-24 1999-02-23 1998-01-24 1999-02-23 1999-02-23 1999-03-24 2000-04-21	SA MAN SA REP	10500.00 10000.00 9500.00 9000.00 9000.00 9000.00 7500.00 9500.00 9500.00 9000.00 7500.00 7500.00 7500.00 7200.00 6800.00 6400.00 6400.00 11500.00 10000.00 9600.00 7400.00 7400.00 11500.00	0.20 0.30 0.25 0.25 0.20 0.15 0.35 0.35 0.30 0.30 0.30 0.25 0.15 0.10 0.10 0.10 0.10 0.10 0.10 0.1	100 145 145 145 145 145 145 145 146 146 146 146 147 147 147 147 147 148 148 148 148 148	80 80 80 80 80 80 80 80 80 80 80 80 80 8	Sou East North Nor
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	149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181	Eleni Peter David Peter David Peter Christopher Nanette Oliver Janette Patrick Allan Lindsey Louise Sarath Clara Danielle Mattea David Sundar Amit Lisa Harrison Tayler William Elizabeth Sundita Ellen Alyssa Jonathon Jack Kimberely Charles Winston Jean	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen Smith Doran Sewall Vishney Greene Marvins Lee Ande Banda Ozer Bloom Fox Smith Bates Kumar Abel Hutton Taylor Livingston Grant Johnson Taylor Fleaur	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY AMCEWEN LSMITH LDORAN SSEWALL CVISHNEY DGREENE MMARVINS DLEE SANDE ABANDA LOZER HBLOOM TFOX WSMITH EBATES SKUMAR EABEL AHUTTON JTAYLOR JLIVINGS KGRANT CJOHNSON WTAYLOR JFLEAUR	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1346 011.44.1346 011.44.1346 011.44.1343 011.44	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-03-30 1996-01-30 1996-01-30 1996-03-04 1996-08-01 1997-03-10 1997-12-15 1998-11-03 1997-11-11 1999-03-19 2000-01-24 2000-04-21 1998-01-24 1999-03-23 1999-03-24 1999-03-24 1999-03-24 1998-01-24 1998-04-23 1998-04-23 1998-04-23 1999-05-24 1998-01-04 1998-01-04	SA MAN SA REP SA	10500.00 10000.00 9500.00 9500.00 9500.00 9500.00 9500.00 7500.00 7500.00 9500.00 9500.00 9500.00 9500.00 9500.00 9500.00 9500.00 9500.00 7500	0.20 0.30 0.25 0.25 0.20 0.15 0.35 0.35 0.35 0.30 0.30 0.30 0.25 0.15 0.10 0.10 0.10 0.10 0.10 0.15 0.15	100 145 145 145 145 145 145 146 146 146 146 147 147 147 147 147 148 148 148 148 148 149 149 149 149 120 120	80 80 80 80 80 80 80 80 80 80 80 80 80 8	South East North South East South North South So
	149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182	Eleni Peter David Peter David Peter Christopher Nanette Oliver Janette Patrick Allan Lindsey Louise Sarath Clara David Sundar Amit Lisa David Sundar Amit Lisa Lisa Lisa David Sundar Amit Lisa Lisa Lisa Lisa Lisa Lisa Lisa Lisa	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen Smith Doran Sewall Vishney Greene Marvins Lee Ande Banda Ozer Bloom Fox Smith Bates Kumar Abel Hutton Taylor Livingston Grant Johnson Taylor Fleaur Sullivan	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY AMCEWEN LSMITH LDORAN SSEWALL CVISHNEY DGREENE MMARVINS DLEE SANDE ABANDA LOZER HBLOOM TFOX WSMITH EBATES SKUMAR EABEL AHUTTON JTAYLOR JLIVINGS KGRANT CJOHNSON WTAYLOR JFLEAUR MSULLIVA	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1343	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09 1998-12-09 1999-11-23 1996-01-30 1996-03-04 1996-08-01 1997-03-10 1997-12-15 1998-11-03 1997-11-11 1999-03-19 2000-01-24 2000-02-23 2000-04-21 1997-03-11 1999-03-23 1998-01-24 1999-03-24 2000-04-21 1999-03-24 2000-04-21 1999-03-24 2000-04-21 1999-05-24 2000-01-24 1998-03-24 1998-03-24 1998-03-24 1998-03-24 1998-03-24 1998-03-24 1998-03-24 1998-03-24 1998-03-24 1998-03-24	SA MAN SA REP SA	10500.00 10000.00 9500.00 9500.00 9500.00 9500.00 9500.00 7500.00 7500.00 7500.00 7500.00 7500.00 7500.00 7500.00 9500.00 9500.00 9500.00 9500.00 9500.00 9500.00 7200.00 11500.00 9600.00 7400.00	0.20 0.30 0.25 0.25 0.20 0.15 0.35 0.35 0.35 0.35 0.30 0.25 0.25 0.15 0.10 0.10 0.10 0.10 0.15 0.15 0.1	100 145 145 145 145 145 145 146 146 146 146 146 147 147 147 147 147 148 148 148 148 148 149 149 149 149 149 149 149 149 149 149	80 80 80 80 80 80 80 80 80 80 80 80 80 8	ROTTO
	149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 180 181 181 182 183	Eleni Peter David Peter David Peter Christopher Nanette Oliver Janette Patrick Allan Lindsey Louise Sarath Clara Danielle Mattea David Sundar Amit Lisa Harrison Tayler William Elizabeth Sundita Ellen Alyssa Jonathon Jack Kimberely Charles Winston Jean Martha Girard	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen Smith Doran Sewall Vishney Greene Marvins Lee Ande Banda Ozer Bloom Fox Smith Bates Kumar Abel Hutton Taylor Livingston Grant Johnson Taylor Fleaur Sullivan Geoni	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY AMCEWEN LSMITH LDORAN SSEWALL CVISHNEY DGREENE MARVINS DLEE SANDE ABANDA LOZER HBLOOM TFOX WSMITH EBATES SKUMAR EABEL AHUTTON JTAYLOR JLIVINGS KGRANT CJOHNSON WTAYLOR FILEAUR MSULLIVA GGEONI	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1346 011.44.1346 011.44.1346 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1343 011.44.1644 011.44.1644 011.44.1644 011.44.1644 011.44.1644 011.44.1644 011.44.1644 011.44.1644 011.44.1644 011.44.1644 011.44.1644 011.44.1644 011.44.1644 011.44.1644 011.44.1644 011.44.1644 011.44.1644 011.500.79878 650.507.9878	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09 1998-12-09 1999-11-23 1996-01-30 1996-03-04 1996-08-01 1997-03-10 1997-12-15 1998-11-03 1997-11-11 1999-03-19 2000-01-24 2000-02-23 2000-04-21 1997-03-11 1998-03-23 1998-01-24 1999-02-23 1999-03-24 2000-04-21 1996-05-11 1996-05-11 1997-03-19 1998-01-24 1998-01-24 1998-01-24 1998-01-24 1998-01-24 1998-01-24 1998-01-24 1998-01-23 1999-05-24 2000-01-04	SA MAN SA REP SA	10500.00 10000.00 9500.00 9500.00 9500.00 9500.00 7500.00 7500.00 9500.00 9500.00 9500.00 9500.00 9500.00 9500.00 10500.00 9500.00 9500.00 10500.00 9500.00 10500.00 9500.00 11500.00 11500.00 11500.00 11500.00 11000.00 8400.00 6400.00 620.00 11000.00 8400.00 8500.00 8500.00 8500.00 8500.00 8500.00 8500.00 8500.00 8500.00	0.20 0.30 0.25 0.25 0.25 0.20 0.15 0.35 0.35 0.30 0.30 0.30 0.25 0.25 0.15 0.10 0.10 0.10 0.10 0.10 0.10 0.1	100 145 145 145 145 145 145 146 146 146 146 146 147 147 147 147 147 148 148 148 148 149 149 149 149 149 149 149 149 149 140 120 120 120	80 80 80 80 80 80 80 80 80 80 80 80 80 8	South East East Week East South East East East South East South East East East East East East East East
	149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182	Eleni Peter David Peter David Peter Christopher Nanette Oliver Janette Patrick Allan Lindsey Louise Sarath Clara David Sundar Amit Lisa David Sundar Kimlerison Tayler William Elizabeth Sundita Ellen Alyssa Jonathon Jack Kimberely Charles Winston Jean Martha	Zlotkey Tucker Bernstein Hall Olsen Cambrault Tuvault King Sully McEwen Smith Doran Sewall Vishney Greene Marvins Lee Ande Banda Ozer Bloom Fox Smith Bates Kumar Abel Hutton Taylor Livingston Grant Johnson Taylor Fleaur Sullivan	EZLOTKEY PTUCKER DBERNSTE PHALL COLSEN NCAMBRAU OTUVAULT JKING PSULLY AMCEWEN LSMITH LDORAN SSEWALL CVISHNEY DGREENE MMARVINS DLEE SANDE ABANDA LOZER HBLOOM TFOX WSMITH EBATES SKUMAR EABEL AHUTTON JTAYLOR JLIVINGS KGRANT CJOHNSON WTAYLOR JFLEAUR MSULLIVA	011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1344 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1345 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1346 011.44.1343	2000-01-29 1997-01-30 1997-03-24 1997-08-20 1998-03-30 1998-12-09 1998-12-09 1999-11-23 1996-01-30 1996-03-04 1996-08-01 1997-03-10 1997-12-15 1998-11-03 1997-11-11 1999-03-19 2000-01-24 2000-02-23 2000-04-21 1997-03-11 1999-03-23 1998-01-24 1999-03-24 2000-04-21 1999-03-24 2000-04-21 1999-03-24 2000-04-21 1999-05-24 2000-01-24 1998-03-24 1998-03-24 1998-03-24 1998-03-24 1998-03-24 1998-03-24 1998-03-24 1998-03-24 1998-03-24 1998-03-24	SA MAN SA REP SA	10500.00 10000.00 9500.00 9500.00 9500.00 9500.00 9500.00 7500.00 7500.00 7500.00 7500.00 7500.00 7500.00 7500.00 9500.00 9500.00 9500.00 9500.00 9500.00 9500.00 7200.00 11500.00 9600.00 7400.00	0.20 0.30 0.25 0.25 0.20 0.15 0.35 0.35 0.35 0.35 0.30 0.25 0.25 0.15 0.10 0.10 0.10 0.10 0.15 0.15 0.1	100 145 145 145 145 145 145 146 146 146 146 146 147 147 147 147 147 148 148 148 148 148 149 149 149 149 149 149 149 149 149 149	80 80 80 80 80 80 80 80 80 80 80 80 80 8	Soo Eaa Soo Soo Eaa Soo William Soo William Soo Soo Eaa Soo William Soo Soo Eaa Soo William Soo Soo Eaa Soo Soo Eaa Soo William Soo Soo Eaa Soo Soo Eaa Soo Soo Eaa Soo Soo Eaa Soo Soo Soo Eaa Soo Soo Eaa Soo Soo Eaa Soo Soo Soo Soo Eaa Soo Soo Soo Eaa Soo Soo Soo Soo Soo Eaa Soo Soo Soo Soo Soo Soo Soo Soo Soo S

185	Alexis	Bull	ABULL	650.509.2876	1997-02-20	SH_CLERK	4100.00	NULL	121	50	East
186	Julia	Dellinger	JDELLING	650.509.3876	1998-06-24	SH_CLERK	3400.00	NULL	121	50	West
187	Anthony	Cabrio	ACABRIO	650.509.4876	1999-02-07	SH_CLERK	3000.00	NULL	121	50	North
188	Kelly	Chung	KCHUNG	650.505.1876	1997-06-14	SH_CLERK	3800.00	NULL	122	50	NULL
189	Jennifer	Dilly	JDILLY	650.505.2876	1997-08-13	SH_CLERK	3600.00	NULL	122	50	North
190	Timothy	Gates	TGATES	650.505.3876	1998-07-11	SH_CLERK	2900.00	NULL	122	50	NULL
191	Randall	Perkins	RPERKINS	650.505.4876	1999-12-19	SH_CLERK	2500.00	NULL	122	50	NULL
192	Sarah	Bell	SBELL	650.501.1876	1996-02-04	SH_CLERK	4000.00	NULL	123	50	South
193	Britney	Everett	BEVERETT	650.501.2876	1997-03-03	SH_CLERK	3900.00	NULL	123	50	East
194	Samuel	McCain	SMCCAIN	650.501.3876	1998-07-01	SH_CLERK	3200.00	NULL	123	50	NULL
195	Vance	Jones	VJONES	650.501.4876	1999-03-17	SH_CLERK	2800.00	NULL	123	50	South
196	Alana	Walsh	AWALSH	650.507.9811	1998-04-24	SH_CLERK	3100.00	NULL	124	50	NULL
197	Kevin	Feeney	KFEENEY	650.507.9822	1998-05-23	SH_CLERK	3000.00	NULL	124	50	South
198	Donald	OConnell	DOCONNEL	650.507.9833	1999-06-21	SH_CLERK	2600.00	NULL	124	50	East
199	Douglas	Grant	DGRANT	650.507.9844	2000-01-13	SH_CLERK	2600.00	NULL	124	50	South
200	Jennifer	Whalen	JWHALEN	515.123.4444	1987-09-17	AD_ASST	4400.00	NULL	101	10	NULL
201	Michael	Hartstein	MHARTSTE	515.123.5555	1996-02-17	MK_MAN	13000.00	NULL	100	20	NULL
202	Pat	Fay	PFAY	603.123.6666	1997-08-17	MK_REP	6000.00	NULL	201	20	West
203	Susan	Mavris	SMAVRIS	515.123.7777	1994-06-07	HR_REP	6500.00	NULL	101	40	South
204	Hermann	Baer	HBAER	515.123.8888	1994-06-07	PR_REP	10000.00	NULL	101	70	East
205	Shelley	Higgins	SHIGGINS	515.123.8080	1994-06-07	AC_MGR	12000.00	NULL	101	110	East
206	William	Gietz	WGIETZ	51hr5.123.8181	1994-06-07	AC_ACCOUNT	8300.00	NULL	205	110	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Select * from departments;

	department_id	department_name	manager_id	location_id
•	10	Administration	200	1700
	20	Marketing	201	1800
	30	Purchasing	114	1700
	40	Human Resources	203	2400
	50	Shipping	121	1500
	60	Π	103	1400
	70	Public Relations	204	2700
	80	Sales	145	2500
	90	Executive	100	1700
	100	Finance	108	1700
	110	Accounting	205	1700
	120	Treasury	NULL	1700
	130	Corporate Tax	NULL	1700
	140	Control And Credit	NULL	1700
	150	Shareholder Servi	NULL	1700
	160	Benefits	NULL	1700
	170	Manufacturing	NULL	1700
	180	Construction	NULL	1700
	190	Contracting	NULL	1700
	200	Operations	NULL	1700
	210	IT Support	NULL	1700
	220	NOC	NULL	1700
	230	IT Helpdesk	NULL	1700
	240	Government Sales	NULL	1700
	250	Retail Sales	NULL	1700
	260	Recruiting	NULL	1700
	270	Payroll	NULL	1700
	NULL	NULL	HULL	NULL

2. Display only the hire date and employee name for each employee.

SELECT hire_date, concat(first_name,' ',last_name) as employee_name FROM employees;

hire_date	employee_name	hire_date	employee_name		
1987-06-17	Steven King	1997-10-26	Stephen Stiles		
1989-09-21	Neena Kochhar	1998-02-12	John Seo		
1993-01-13	Lex De Haan	1998-04-06	Joshua Patel		
1990-01-03	Alexander Hunold	1995-10-17	Trenna Rajs		
1991-05-21	Bruce Ernst	1997-01-29	Curtis Davies		
1997-06-25	David Austin	1998-03-15	Randall Matos		
1998-02-05	Valli Pataballa	1998-07-09	Peter Vargas		
1999-02-07	Diana Lorentz	1996-10-01	John Russell		
1994-08-17	Nancy Greenberg	1997-01-05	Karen Partners	1998-03-24	Jonathon Tav
1994-08-16	Daniel Faviet	1997-03-10	Alberto Errazuriz	1998-03-24	Jack Livingsto
1997-09-28	John Chen	1999-10-15	Gerald Cambrault	1999-05-24	Kimberely Gra
1997-09-30	Ismael Sciarra	2000-01-29	Eleni Zlotkey	2000-01-04	Charles Johns
1998-03-07	Jose Manuel Urman	1997-01-30	Peter Tucker	1998-01-24	Winston Taylo
1999-12-07	Luis Popp	1997-03-24	David Bernstein	1998-02-23	Jean Fleaur
1994-12-07	Den Raphaely	1997-08-20	Peter Hall	1999-06-21	Martha Sulliva
1995-05-18	Alexander Khoo	1998-03-30	Christopher Olsen	2000-02-03	Girard Geoni
1997-12-24	Shelli Baida	1998-12-09	Nanette Cambrault	1996-01-27	Nandita Sarch
1997-07-24	Sigal Tobias	1999-11-23	Oliver Tuvault	1997-02-20	Alexis Bull
1998-11-15	Guy Himuro	1996-01-30	Janette King	1998-06-24	Julia Dellinger
1999-08-10	Karen Colmenares	1996-03-04	Patrick Sully	1999-02-07	Anthony Cab
1996-07-18	Matthew Weiss	1996-08-01	Allan McEwen	1997-06-14	Kelly Chung
1997-04-10	Adam Fripp	1997-03-10	Lindsey Smith	1997-08-13	Jennifer Dilly
1995-05-01	Payam Kaufling	1997-12-15	Louise Doran	1998-07-11	Timothy Gates
1997-10-10	Shanta Vollman	1998-11-03	Sarath Sewall	1999-12-19	Randall Perkin
1999-11-16	Kevin Mourgos	1997-11-11	Clara Vishney	1996-02-04	Sarah Bell
1997-07-16	_	1999-03-19	Danielle Greene	1997-03-03	Britney Evere
1998-09-28	Irene Mikkilineni	2000-01-24	Mattea Marvins	1998-07-01	Samuel McCai
1999-01-14	James Landry	2000-02-23	David Lee	1999-03-17	Vance Jones
2000-03-08	Steven Markle	2000-03-24	Sundar Ande	1998-04-24	Alana Walsh
1997-08-20	Laura Bissot	2000-04-21	Amit Banda	1998-05-23	Kevin Feeney
1997-10-30	Mozhe Atkinson	1997-03-11	Lisa Ozer	1999-06-21	Donald OCon
1997-02-16	James Marlow	1998-03-23	Harrison Bloom	2000-01-13 1987-09-17	Douglas Gran Jennifer Wha
1999-04-10		1998-01-24	Tayler Fox	1987-09-17	Michael Harts
1996-06-14		1999-02-23	William Smith	1996-02-17	Pat Fav
1998-08-26		1999-03-24	Elizabeth Bates	1997-08-17	Susan Mavris
1999-12-12		2000-04-21	Sundita Kumar	1994-06-07	Hermann Bae
2000-02-06		1996-05-11	Ellen Abel	1994-06-07	Shelley Higgin
1995-07-14		1997-03-19	Alyssa Hutton	1994-06-07	William Gietz

3. Display the ename concatenated with the job ID, separated by a comma and space, and name the column Employee and Title

SELECT CONCAT(first_name, ', ', job_id) AS "Employee and Title" FROM employees;

Employee and Title	Employee and	
Steven, AD_PRES	Title	
Neena, AD_VP	Mozhe, ST_CLERK	Louise, SA_REP
Lex, AD_VP	James, ST_CLERK	Sarath, SA_REP
Alexander, IT_PROG	TJ, ST_CLERK	Clara, SA_REP
Bruce, IT_PROG	Jason, ST_CLERK	Danielle, SA_REP
David, IT_PROG	Michael, ST_CLERK	Mattea, SA_REP
Valli, IT_PROG	Ki, ST_CLERK	David, SA_REP
Diana, IT_PROG	Hazel, ST_CLERK	Sundar, SA_REP
Nancy, FI_MGR	Renske, ST_CLERK	Amit, SA_REP
Daniel, FI_ACCOUNT	Stephen, ST_CLERK	Lisa, SA_REP
John, FI_ACCOUNT	John, ST_CLERK	Harrison, SA_REF
Ismael, FI_ACCOUNT	Joshua, ST_CLERK	Tayler, SA_REP
Jose Manuel, FI_AC	. Trenna, ST_CLERK	William, SA_REP
Luis, FI_ACCOUNT	Curtis, ST_CLERK	Elizabeth, SA_RE
Den, PU_MAN	Randall, ST_CLERK	Sundita, SA_REP
Alexander, PU_CLERK	Peter, ST_CLERK	Ellen, SA_REP
Shelli, PU_CLERK	John, SA_MAN	Alyssa, SA_REP
Sigal, PU_CLERK	Karen, SA_MAN	Jonathon, SA_RE
Guy, PU_CLERK	Alberto, SA_MAN	Jack, SA_REP
Karen, PU_CLERK	Gerald, SA_MAN	Kimberely, SA_Ri
Matthew, ST_MAN	Eleni, SA_MAN	Charles, SA_REP
Adam, ST_MAN	Peter, SA_REP	Winston, SH_CLE
Payam, ST_MAN	David, SA_REP	Jean, SH_CLERK
Shanta, ST_MAN	Peter, SA_REP	Martha, SH_CLEF
Kevin, ST_MAN	Christopher, SA_REP	Girard, SH_CLER
Julia, ST_CLERK	Nanette, SA_REP	Nandita, SH_CLE
Irene, ST_CLERK	Oliver, SA_REP	Alexis, SH_CLERI
James, ST_CLERK	Janette, SA_REP	Julia, SH_CLERK
Steven, ST_CLERK	Patrick, SA_REP	Anthony, SH_CLE
Laura, ST_CLERK	Allan, SA_REP	Kelly, SH_CLERK
Mozhe, ST. CLERK	Lindsey, SA_REP	Jennifer, SH_CLE

Clara, SA_REP Danielle, SA_REP Mattea, SA_REP David, SA_REP Sundar, SA_REP Amit, SA_REP Lisa, SA_REP Harrison, SA_REP Tayler, SA_REP William, SA_REP Elizabeth, SA_REP Sundita, SA_REP Ellen, SA_REP Alyssa, SA_REP Jonathon, SA_REP Jack, SA_REP Kimberely, SA_REP Charles, SA_REP Winston, SH_CLERK Jean, SH_CLERK Martha, SH_CLERK Girard, SH_CLERK Nandita, SH_CLERK Alexis, SH_CLERK Julia, SH_CLERK Anthony, SH_CLERK Kelly, SH_CLERK Jennifer, SH_CLERK

Timothy, SH_CLERK Randall, SH_CLERK Sarah, SH_CLERK Britney, SH_CLERK Samuel, SH_CLERK Vance, SH_CLERK Alana, SH_CLERK Kevin, SH_CLERK Donald, SH_CLERK Douglas, SH_CLERK Jennifer, AD_ASST Michael, MK_MAN Pat, MK_REP Susan, HR_REP Hermann, PR_REP Shelley, AC_MGR William, AC ACCOUNT 4. Display the hire date, name and department number for all clerks.

SELECT hire_date, concat(first_name,' ',last_name) as employee_name, department_id FROM employees WHERE job_id = 'ST_CLERK' or 'PU_CLERK';

	hire_date	employee_name	department_id
Þ	1997-07-16	Julia Nayer	50
	1998-09-28	Irene Mikkilineni	50
	1999-01-14	James Landry	50
	2000-03-08	Steven Markle	50
	1997-08-20	Laura Bissot	50
	1997-10-30	Mozhe Atkinson	50
	1997-02-16	James Marlow	50
	1999-04-10	TJ Olson	50
	1996-06-14	Jason Mallin	50
	1998-08-26	Michael Rogers	50
	1999-12-12	Ki Gee	50
	2000-02-06	Hazel Philtanker	50
	1995-07-14	Renske Ladwig	50
	1997-10-26	Stephen Stiles	50
	1998-02-12	John Seo	50
	1998-04-06	Joshua Patel	50
	1995-10-17	Trenna Rajs	50
	1997-01-29	Curtis Davies	50
	1998-03-15	Randall Matos	50
	1998-07-09	Peter Vargas	50

5. Create a query to display all the data from the EMP table. Separate each column by a comma. Name the column THE OUTPUT

```
SELECT CONCAT(employee_id, ', ', first_name, ', ', last_name, ', ', email, ', ', phone_number, ', ', hire_date, ', ', job_id, ', ', salary, ', ', commission_pct, ', ', manager_id, ', ', department_id) AS "THE OUTPUT" FROM employees;
```

6. Display the names and salaries of all employees with a salary greater than 2000.

SELECT CONCAT(first_name, ' ', last_name) AS employee_name, salary FROM employees WHERE salary > 2000;

first_name	last_name	salary			
Steven	King	24000.00			
Neena	Kochhar	17000.00			
Lex	De Haan	17000.00			
Alexander	Hunold	9000.00	TJ (T	Olson	2100.00
Bruce	Ernst	6000.00	Jason	Mallin	3300.00
David	Austin	4800.00	Michael	Rogers	2900.00
Valli	Pataballa	4800.00	Ki	Gee	2400.00
Diana	Lorentz	4200.00	Hazel	Philtanker	2200.00
Nancy	Greenberg	12000.00	Renske	Ladwig	3600.00
Daniel	Faviet	9000.00	Stephen	Stiles	3200.00
John	Chen	8200.00	John	Seo	2700.00
Ismael	Sciarra	7700.00	Joshua	Patel	2500.00
Jose Manuel	Urman	7800.00	Trenna	Rajs	3500.00
Luis	Popp	6900.00	Curtis	Davies	3100.00
Den	Raphaely	11000.00	Randall	Matos	2600.00
Alexander	Khoo	3100.00	Peter	Vargas	2500.00
Shelli	Baida	2900.00	John	Russell	14000.00
Sigal	Tobias	2800.00	Karen	Partners	13500.00
Guy	Himuro	2600.00	Alberto	Errazuriz	12000.00
Karen	Colmenares	2500.00	Gerald	Cambrault	11000.00
Matthew	Weiss	8000.00	Eleni	Zlotkey	10500.00
Adam	Fripp	8200.00	Peter	Tucker	10000.00
Payam	Kaufling	7900.00	David	Bernstein	9500.00
Shanta	Vollman	6500.00	Peter	Hall	9000.00
Kevin	Mourgos	5800.00	Christopher	Olsen	8000.00
Julia	Nayer	3200.00	Nanette	Cambrault	7500.00
Irene	Mikkilineni	2700.00	Oliver	Tuvault	7000.00
James	Landry	2400.00	Janette	King	10000.00
Steven	Markle	2200.00	Patrick	Sully	9500.00
Laura	Bissot	3300.00	Allan	McEwen	9000.00
Mozhe	Atkinson	2800.00	Lindsey	Smith	8000.00
James	Marlow	2500.00	Louise	Doran	7500.00
Junics	Harlow	2300.00	Sarath	Sewall	7000.00

Clara	Vishney	10500.00
Danielle	Greene	9500.00
Mattea	Marvins	7200.00
David	Lee	6800.00
Sundar	Ande	6400.00
Amit	Banda	6200.00
Lisa	Ozer	11500.00
Harrison	Bloom	10000.00
Tayler	Fox	9600.00
William	Smith	7400.00
Elizabeth	Bates	7300.00
Sundita	Kumar	6100.00
Ellen	Abel	11000.00
Alyssa	Hutton	8800.00
Jonathon	Taylor	8600.00
Jack	Livingston	8400.00
Kimberely	Grant	7000.00
Charles	Johnson	6200.00
Winston	Taylor	3200.00
Jean	Fleaur	3100.00
Martha	Sullivan	2500.00
Girard	Geoni	2800.00
Nandita	Sarchand	4200.00
Alexis	Bull	4100.00
Julia	Dellinger	3400.00
Anthony	Cabrio	3000.00
Kelly	Chung	3800.00
Jennifer	Dilly	3600.00
Timothy	Gates	2900.00

Randall	Perkins	2500.00
Randali	Perkins	2500.00
Sarah	Bell	4000.00
Britney	Everett	3900.00
Samuel	McCain	3200.00
Vance	Jones	2800.00
Alana	Walsh	3100.00
Kevin	Feeney	3000.00
Donald	OConnell	2600.00
Douglas	Grant	2600.00
Jennifer	Whalen	4400.00
Michael	Hartstein	13000.00
Pat	Fay	6000.00
Susan	Mavris	6500.00
Hermann	Baer	10000.00
Shelley	Higgins	12000.00
William	Gietz	8300.00

7. Display the names and dates of employees with the column headers "Name" and "Start Date"

SELECT CONCAT(first_name, ' ', last_name) AS "Name", hire_date AS "Start Date" FROM employees;

Name	Start Date				
Steven King	1987-06-17				
Neena Kochhar	1989-09-21				_
Lex De Haan	1993-01-13	TJ Olson	1999-04-10	Clara Vishney	1997-11-11
Alexander Hunold	1990-01-03	Jason Mallin	1996-06-14	Danielle Greene	1999-03-19
Bruce Ernst	1991-05-21	Michael Rogers	1998-08-26	Mattea Marvins	2000-01-2
David Austin	1997-06-25	Ki Gee	1999-12-12	David Lee	2000-02-2
Valli Pataballa	1998-02-05	Hazel Philtanker	2000-02-06	Sundar Ande	2000-03-2
Diana Lorentz	1999-02-07	Renske Ladwig	1995-07-14	Amit Banda	2000-04-2
Nancy Greenberg	1994-08-17	Stephen Stiles	1997-10-26	Lisa Ozer	1997-03-1
Daniel Faviet	1994-08-16	John Seo	1998-02-12	Harrison Bloom	1998-03-2
John Chen	1997-09-28	Joshua Patel	1998-04-06	Tayler Fox	1998-01-2
Ismael Sciarra	1997-09-30	Trenna Rajs	1995-10-17	William Smith	1999-02-2
Jose Manuel Urman	1998-03-07	Curtis Davies	1997-01-29	Elizabeth Bates	1999-03-2
Luis Popp	1999-12-07	Randall Matos	1998-03-15	Sundita Kumar	2000-04-2
Den Raphaely	1994-12-07	Peter Vargas	1998-07-09	Ellen Abel	1996-05-1
Alexander Khoo	1995-05-18	John Russell	1996-10-01	Alyssa Hutton	1997-03-1
Shelli Baida	1997-12-24	Karen Partners	1997-01-05	Jonathon Taylor	1998-03-2
Sigal Tobias	1997-07-24	Alberto Errazuriz	1997-03-10	Jack Livingston	1998-04-2
Guy Himuro	1998-11-15	Gerald Cambrault	1999-10-15	Kimberely Grant	1999-05-2
Karen Colmenares	1999-08-10	Eleni Zlotkey	2000-01-29	Charles Johnson	2000-01-0
Matthew Weiss	1996-07-18	Peter Tucker	1997-01-30	Winston Taylor	1998-01-2
Adam Fripp	1997-04-10	David Bernstein	1997-03-24	Jean Fleaur	1998-02-2
Payam Kaufling	1995-05-01	Peter Hall	1997-08-20	Martha Sullivan	1999-06-2
Shanta Vollman	1997-10-10	Christopher Olsen	1998-03-30	Girard Geoni	2000-02-0
Kevin Mourgos	1999-11-16	Nanette Cambrault	1998-12-09	Nandita Sarchand	1996-01-2
Julia Nayer	1997-07-16	Oliver Tuvault	1999-11-23	Alexis Bull	1997-02-2
Irene Mikkilineni	1998-09-28	Janette King	1996-01-30	Julia Dellinger	1998-06-2
James Landry	1999-01-14	Patrick Sully	1996-03-04	Anthony Cabrio	1999-02-0
Steven Markle	2000-03-08	Allan McEwen	1996-08-01	Kelly Chung	1997-06-1
Laura Bissot	1997-08-20	Lindsey Smith	1997-03-10	Jennifer Dilly	1997-08-1
Mozhe Atkinson	1997-10-30	Louise Doran	1997-12-15	Timothy Gates	1998-07-1
James Marlow	1997-02-16	Sarath Sewall	1998-11-03	Randall Perkins	1999-12-1

Sarah Bell	1996-02-04
Britney Everett	1997-03-03
Samuel McCain	1998-07-01
Vance Jones	1999-03-17
Alana Wa Vance Jo	nes 8-04-24
Kevin Feeney	1998-05-23
Donald OConnell	1999-06-21
Douglas Grant	2000-01-13
Jennifer Whalen	1987-09-17
Michael Hartstein	1996-02-17
Pat Fay	1997-08-17
Susan Mavris	1994-06-07
Hermann Baer	1994-06-07
Shelley Higgins	1994-06-07
William Gietz	1994-06-07

8. Display the names and hire dates of all employees in the order they were hired.

select concat(first_name, ' ', last_name) as name, hire_date as "hire date" from employees order by hire_date;

Steven King	1987-06-17	Britney Everett	1997-03-03	Harrison Bloom	1998-03-23
Jennifer Whalen Neena Kochhar	1987-09-17	Alberto Errazuriz	1997-03-10	Jonathon Taylor	1998-03-24
	1989-09-21	Lindsey Smith	1997-03-10	Christopher Olsen	1998-03-30
Alexander Hunold	1990-01-03	Lisa Ozer	1997-03-11	Joshua Patel	1998-04-06
Bruce Ernst	1991-05-21 1993-01-13	Alvssa Hutton	1997-03-19	Jack Livingston	1998-04-23
Lex De Haan Susan Mavris	1993-01-13	David Bernstein	1997-03-24	Alana Walsh	1998-04-24
Hermann Baer	1994-06-07	Adam Fripp	1997-04-10	Kevin Feeney	1998-05-23
Shelley Higgins	1994-06-07	Kelly Chung	1997-06-14		1998-06-24
William Gietz	1994-06-07	David Austin	1997-06-25	Julia Dellinger Samuel McCain	1998-07-01
Daniel Faviet	1994-08-16	Julia Naver	1997-07-16		
Nancy Greenberg	1994-08-17	Sigal Tobias	1997-07-24	Peter Vargas	1998-07-09
Den Raphaely	1994-12-07	Jennifer Dilly	1997-08-13	Timothy Gates	1998-07-11
Payam Kaufling	1995-05-01	Pat Fav	1997-08-17	Michael Rogers	1998-08-26
Alexander Khoo	1995-05-18			Irene Mikkilineni	1998-09-28
Renske Ladwig	1995-03-16	Laura Bissot	1997-08-20	Sarath Sewall	1998-11-03
Trenna Rajs	1995-07-14	Peter Hall	1997-08-20	Guy Himuro	1998-11-15
Nandita Sarchand	1996-01-27	John Chen	1997-09-28	Nanette Cambrault	1998-12-09
Janette King	1996-01-27	Ismael Sciarra	1997-09-30	James Landry	1999-01-14
Sarah Bell	1996-02-04	Shanta Vollman	1997-10-10	Diana Lorentz	1999-02-07
Michael Hartstein	1996-02-07	Stephen Stiles	1997-10-26	Anthony Cabrio	1999-02-07
Patrick Sully	1996-03-04	Mozhe Atkinson	1997-10-30	William Smith	1999-02-23
Ellen Abel	1996-05-11	Clara Vishney	1997-11-11	Vance Jones	1999-03-17
Jason Mallin	1996-06-14	Louise Doran	1997-12-15	Danielle Greene	1999-03-19
Matthew Weiss	1996-07-18	Shelli Baida	1997-12-24	Elizabeth Bates	1999-03-24
Allan McEwen	1996-08-01	Tayler Fox	1998-01-24	TJ Olson	1999-04-10
John Russell	1996-10-01	Winston Taylor	1998-01-24	Kimberely Grant	1999-05-24
Karen Partners	1997-01-05	Valli Pataballa	1998-02-05	Martha Sullivan	1999-06-21
Curtis Davies	1997-01-29	John Seo	1998-02-12	Donald OConnell	1999-06-21
Peter Tucker	1997-01-30	Jean Fleaur	1998-02-23	Karen Colmenares	1999-08-10
James Marlow	1997-02-16	Jose Manuel Urman	1998-03-07	Gerald Cambrault	1999-10-15
Alexis Bull	1997-02-20	Randall Matos	1998-03-15	Kevin Mourgos	1999-11-16
Oliver Towards		•			
Oliver Tuvault	1999-11-23				
Luis Popp	1999-12-07				
Ki Gee	1999-12-12				
Randall Perkins	1999-12-19				
Charles Johnson	2000-01-04				
Douglas Grant	2000-01-13				
Mattea Marvins	2000-01-24				
Eleni Zlotkey	2000-01-29				
Girard Geoni	2000-02-03				
Hazel Philtanker	2000-02-06				
David Lee	2000-02-23				
Steven Markle	2000-03-08				
Sundar Ande	2000-03-24				
Amit Banda	2000-04-21				
Sundita Kumar	2000-04-21				

9. Display the names and salaries of all employees in reverse salary order.

select concat(first_name, ' ', last_name) as name, salary from employees order by salary desc;

Steven King	24000.00	Matthew Weiss	8000.00	Kelly Chung	3800.00
Neena Kochhar	17000.00	Christopher Olsen	8000.00	Renske Ladwig	3600.00
Lex De Haan	17000.00	Lindsey Smith	8000.00	Jennifer Dilly	3600.00
John Russell	14000.00	Payam Kaufling	7900.00	Trenna Rajs	3500.00
Karen Partners	13500.00	Jose Manuel Urman	7800.00	Julia Dellinger	3400.00
Michael Hartstein	13000.00	Ismael Sciarra	7700.00	Laura Bissot	3300.00
Nancy Greenberg	12000.00	Nanette Cambrault	7500.00	Jason Mallin	3300.00
Alberto Errazuriz	12000.00	Louise Doran	7500.00	Julia Nayer	3200.00
Shelley Higgins	12000.00	William Smith	7400.00	Stephen Stiles	3200.00
Lisa Ozer	11500.00	Elizabeth Bates	7300.00	Winston Taylor	3200.00
Den Raphaely	11000.00	Mattea Marvins	7200.00	Samuel McCain	3200.00
Gerald Cambrault	11000.00	Oliver Tuvault	7000.00	Alexander Khoo	3100.00
Ellen Abel	11000.00	Sarath Sewall	7000.00	Curtis Davies	3100.00
Eleni Zlotkey	10500.00	Kimberely Grant	7000.00	Jean Fleaur	3100.00
Clara Vishney	10500.00	Luis Popp	6900.00	Alana Walsh	3100.00
Peter Tucker	10000.00	David Lee	6800.00	Anthony Cabrio	3000.00
Janette King	10000.00	Shanta Vollman	6500.00	Kevin Feeney	3000.00
Harrison Bloom	10000.00	Susan Mavris	6500.00	Shelli Baida	2900.00
Hermann Baer	10000.00	Sundar Ande	6400.00	Michael Rogers	2900.00
Tayler Fox	9600.00	Amit Banda	6200.00	Timothy Gates	2900.00
David Bernstein	9500.00	Charles Johnson	6200.00	Sigal Tobias	2800.00
Patrick Sully	9500.00	Sundita Kumar	6100.00	Mozhe Atkinson	2800.00
Danielle Greene	9500.00	Bruce Ernst	6000.00	Girard Geoni	2800.00
Alexander Hunold	9000.00	Pat Fay	6000.00	Vance Jones	2800.00
Daniel Faviet	9000.00	Kevin Mourgos	5800.00	Irene Mikkilineni	2700.00
Peter Hall	9000.00	David Austin	4800.00	John Seo	2700.00
Allan McEwen	9000.00	Valli Pataballa	4800.00	Guy Himuro	2600.00
Alyssa Hutton	8800.00	Jennifer Whalen	4400.00	Randall Matos	2600.00
Jonathon Taylor	8600.00	Diana Lorentz	4200.00	Donald OConnell	2600.00
Jack Livingston	8400.00	Nandita Sarchand	4200.00	Douglas Grant	2600.00
William Gietz	8300.00	Alexis Bull	4100.00	Karen Colmenares	2500.00
John Chen	8200.00	Sarah Bell	4000.00	James Marlow	2500.00
Adam Fripp	8200.00	Britney Everett	3900.00	Joshua Patel	2500.00

10. Display 'ename" and "deptno" who are all earned commission and display salary in reverse order.

select concat(first_name, ' and ', department_id) as "ename and deptno", salary from employees where commission_pct is not null order by salary desc;

	_
ename and deptno	salary
John and 80	14000.00
Karen and 80	13500.00
Alberto and 80	12000.00
Lisa and 80	11500.00
Gerald and 80	11000.00
Ellen and 80	11000.00
Eleni and 80	10500.00
Clara and 80	10500.00
Peter and 80	10000.00
Janette and 80	10000.00
Harrison and 80	10000.00
Tayler and 80	9600.00
David and 80	9500.00
Patrick and 80	9500.00
Danielle and 80	9500.00
Peter and 80	9000.00
Allan and 80	9000.00
Alyssa and 80	8800.00
Jonathon and 80	8600.00
Jack and 80	8400.00
Christopher and 80	8000.00
Lindsey and 80	8000.00
Nanette and 80	7500.00
Louise and 80	7500.00
William and 80	7400.00
Elizabeth and 80	7300.00
Mattea and 80	7200.00
Oliver and 80	7000.00
Sarath and 80	7000.00
HULL	7000.00
David and 80	6800.00
Sundar and 80	6400.00
Amit and 80	6200.00
Charles and 80	6200.00
Sundita and 80	6100.00

11. Display the last name and job title of all employees who do not have a manager

select last_name, job_id from employees where manager_id is null;

last_name	job_id
King	AD_PRES

12. Display the last name, job, and salary for all employees whose job is sales representative or stock clerk and whose salary is not equal to \$2,500, \$3,500, or \$5,000

l .				
last_name	job_id	salary		
Tucker	SA_REP	10000.00		
Bernstein	SA_REP	9500.00		
Hall	SA_REP	9000.00		
Olsen	SA_REP	8000.00		
Cambrault	SA_REP	7500.00		
Tuvault	SA_REP	7000.00		
King	SA_REP	10000.00		
Sully	SA_REP	9500.00		
McEwen	SA_REP	9000.00		
Smith	SA_REP	8000.00		
Doran	SA_REP	7500.00		
Sewall	SA_REP	7000.00		
Vishney	SA_REP	10500.00		
Greene	SA_REP	9500.00		
Marvins	SA_REP	7200.00		
Lee	SA_REP	6800.00		
Ande	SA_REP	6400.00		
Banda	SA_REP	6200.00		
Ozer	SA_REP	11500.00		
Bloom	SA_REP	10000.00		
Fox	SA_REP	9600.00		
Smith	SA_REP	7400.00		
Bates	SA_REP	7300.00		
Kumar	SA_REP	6100.00		
Abel	SA_REP	11000.00		
Hutton	SA_REP	8800.00		
Taylor	SA_REP	8600.00		
Livingston	SA_REP	8400.00		
Grant	SA_REP	7000.00	Dilly	Dilly SH_CL
Johnson	SA_REP	6200.00	Gates	Gates SH_CL
Taylor	SH_CL	3200.00	Bell	Bell SH_CL
Fleaur	SH_CL	3100.00	Everett	Everett SH_CL
Geoni	SH_CL	2800.00	McCain	McCain SH_CL
Sarchand	SH_CL	4200.00	Jones	Jones SH_CL
Bull	SH_CL	4100.00	Walsh	Walsh SH_CL
Dellinger	SH_CL	3400.00	Feeney	Feeney SH_CL
Cabrio	SH_CL	3000.00	OConnell	OConnell SH_CL
Chung	SH_CL	3800.00	Grant	Grant SH_CL
_				

13. Display the maximum, minimum and average salary and commission earned.

select

```
max(salary) as max_salary,
min(salary) as min_salary,
avg(salary) as avg_salary,
max(commission_pct) as max_commission,
min(commission_pct) as min_commission,
avg(commission_pct) as avg_commission
from employees;
```

	max_salary	min_salary	avg_salary	max_commission	min_commission	avg_commission
•	24000.00	2100.00	6461.682243	0.40	0.10	0.222857

14. Display the department number, total salary payout and total commission payout for each department.

select department_id, sum(salary) as total_salary_payout, sum(commission_pct) as total_commission_payout from employees group by department_id;

department_id	total_salary_payout	total_commission_payout
NULL	7000.00	0.15
10	4400.00	NULL
20	19000.00	NULL
30	24900.00	NULL
40	6500.00	NULL
50	156400.00	NULL
60	28800.00	NULL
70	10000.00	NULL
80	304500.00	7.65
90	58000.00	NULL
100	51600.00	NULL
110	20300.00	NULL
	10 20 30 40 50 60 70 80 90	7000.00 10 4400.00 20 19000.00 30 24900.00 40 6500.00 50 156400.00 60 28800.00 70 10000.00 80 304500.00 90 58000.00 100 51600.00

15. Display the department number and number of employees in each department

select department_id, count(*) as num_employees from employees group by department_id;

	department_id	num_employees
•	NULL	1
	10	1
	20	2
	30	6
	40	1
	50	45
	60	5
	70	1
	80	34
	90	3
	100	6
	110	2

16. Display the department number and total salary of employees in each department.

select department_id,sum(salary) as toal_salary from employees group by department_id;

	department_id	toal_salary
•	NULL	7000.00
	10	4400.00
	20	19000.00
	30	24900.00
	40	6500.00
	50	156400.00
	60	28800.00
	70	10000.00
	80	304500.00
	90	58000.00
	100	51600.00
	110	20300.00

17. Display the employee's name who doesn't earn a commission. Order the result set without using the column name

select concat(first_name, '', last_name) from employees where commission_pct is null order by 1;

	concat(first_name, '', last_name)		_
-	Adam Fripp	Kevin Feeney	
_	Alana Walsh	Kevin Mourgos	
-1"	Alexander Hunold	Ki Gee	
١.	Alexander Hunoid Alexander Khoo	Laura Bissot	
-1"	Alexis Bull	Lex De Haan	
١.		Luis Popp	
-1	Anthony Cabrio	Martha Sullivan	
1	Britney Everett	Matthew Weiss	
-11	Bruce Ernst	Michael Hartstein	
1.	Curtis Davies	Michael Rogers	
-11	Daniel Faviet	Mozhe Atkinson	
-1	David Austin	Nancy Greenberg	
-	Den Raphaely	Nandita Sarchand	
١.	Diana Lorentz	Neena Kochhar	
I	Donald OConnell	Pat Fav	
I	Douglas Grant	Payam Kaufling	
(Girard Geoni	Peter Vargas	
(Guy Himuro	Randall Matos	
ł	Hazel Philtanker	Randall Perkins	
ł	Hermann Baer	Renske Ladwig	
]	Irene Mikkilineni	Samuel McCain	
J	Ismael Sciarra	Sarah Bell	
	James Landry	Shanta Vollman	
	James Marlow		Steven Markle
	Jason Mallin	Shelley Higgins Shelli Baida	Susan Mavris
	Jean Fleaur		
:	Jennifer Dilly	Sigal Tobias	Timothy Gates
1	Jennifer Whalen	Stephen Stiles	TJ Olson
	John Chen	Steven King	Trenna Rajs
1	John Seo	Steven Markle	Valli Pataballa
	Jose Manuel Urman	Susan Mavris	Vance Jones
ĺ.	Joshua Patel	Timothy Gates	William Gietz
		TJ Olson	Winston Taylor

18. Display the employees name, department id and commission. If an Employee doesn't earn the commission, then display as 'No commission'. Name the columns appropriately

select concat(first_name, ' ', last_name) as employee_name,
 salary as salary,
 coalesce(cast(commission_pct * 2 as char), 'No commission') as
double_commission
from employees;

	employee_name	department	commission			
٠	Steven King	90	No commission	Ki Gee	50	No commission
	Neena Kochhar	90	No commission	Hazel Philtanker	50	No commission
	Lex De Haan	90	No commission	Renske Ladwig	50	No commission
	Alexander Hunold	60	No commission	Stephen Stiles	50	No commission
	Bruce Ernst	60	No commission	John Seo	50	No commission
	David Austin	60	No commission	Joshua Patel	50	No commission
	Valli Pataballa	60	No commission	Trenna Rajs	50	No commission
	Diana Lorentz	60	No commission	Curtis Davies	50	No commission
	Nancy Greenberg	100	No commission	Randall Matos	50	No commission
	Daniel Faviet	100	No commission	Peter Vargas	50	No commission
	John Chen	100	No commission	John Russell	80	0.40
	Ismael Sciarra	100	No commission	Karen Partners	80	0.30
	Jose Manuel Urman	100	No commission	Alberto Errazuriz	80	0.30
	Luis Popp	100	No commission	Gerald Cambrault	80	0.30
	Den Raphaely	30	No commission	Eleni Zlotkey	80	0.20
	Alexander Khoo	30	No commission	Peter Tucker	80	0.30
	Shelli Baida	30	No commission	David Bernstein	80	0.25
	Sigal Tobias	30	No commission	Peter Hall	80	0.25
	Guy Himuro	30	No commission	Christopher Olsen	80	0.20
	Karen Colmenares	30	No commission	Nanette Cambrault	80	0.20
	Matthew Weiss	50	No commission	Oliver Tuvault	80	0.15
	Adam Fripp	50	No commission	Janette King	80	0.35
	Payam Kaufling	50	No commission	Patrick Sully	80	0.35
	Shanta Vollman	50	No commission	Allan McEwen	80	0.35
	Kevin Mourgos	50	No commission	Lindsey Smith	80	0.30
	Julia Nayer	50	No commission	Louise Doran	80	0.30
	Irene Mikkilineni	50	No commission	Sarath Sewall	80	0.25
	James Landry	50	No commission	Clara Vishney	80	0.25
	Steven Markle	50	No commission	Danielle Greene	80	0.15
	Laura Bissot	50	No commission	Mattea Marvins	80	0.10
	Mozhe Atkinson	50	No commission	David Lee	80	0.10
	James Marlow	50	No commission	Sundar Ande	80	0.10
	TJ Olson	50	No commission	Amit Banda	80	0.10
	Jason Mallin	50	No commission	Lisa Ozer	80	0.25
	Michael Rogers	50	No commission	Harrison Bloom	80	0.20

employee_name	department	commission
Tayler Fox	80	0.20
William Smith	80	0.15
Elizabeth Bates	80	0.15
Sundita Kumar	80	0.10
Ellen Abel	80	0.30
Alyssa Hutton	80	0.25
Jonathon Taylor	80	0.20
Jack Livingston	80	0.20
Kimberely Grant	NULL	0.15
Charles Johnson	80	0.10
Winston Taylor	50	No commission
Jean Fleaur	50	No commission
Martha Sullivan	50	No commission
Girard Geoni	50	No commission
Nandita Sarchand	50	No commission
Alexis Bull	50	No commission
Julia Dellinger	50	No commission
Anthony Cabrio	50	No commission
Kelly Chung	50	No commission
Jennifer Dilly	50	No commission
Timothy Gates	50	No commission
Randall Perkins	50	No commission
Sarah Bell	50	No commission
Britney Everett	50	No commission
Samuel McCain	50	No commission
Vance Jones	50	No commission
Alana Walsh	50	No commission
Kevin Feeney	50	No commission
Donald OConnell	50	No commission
Douglas Grant	50	No commission
Jennifer Whalen	10	No commission
Michael Hartstein	20	No commission
Pat Fay	20	No commission
Susan Mavris	40	No commission
Hermann Baer	70	No commission

Tayler Fox	80	0.20
William Smith	80	0.15
Elizabeth Bates	80	0.15
Sundita Kumar	80	0.10
Ellen Abel	80	0.30
Alyssa Hutton	80	0.25
Jonathon Taylor	80	0.20
Jack Livingston	80	0.20
Kimberely Grant	NULL	0.15
Charles Johnson	80	0.10
Winston Taylor	50	No commission
Jean Fleaur	50	No commission
Martha Sullivan	50	No commission
Girard Geoni	50	No commission
Nandita Sarchand	50	No commission
Alexis Bull	50	No commission
Julia Dellinger	50	No commission
Anthony Cabrio	50	No commission
Kelly Chung	50	No commission
Jennifer Dilly	50	No commission
Timothy Gates	50	No commission
Randall Perkins	50	No commission
Sarah Bell	50	No commission
Britney Everett	50	No commission
Samuel McCain	50	No commission
Vance Jones	50	No commission
Alana Walsh	50	No commission
Kevin Feeney	50	No commission
Donald OConnell	50	No commission
Douglas Grant	50	No commission
Jennifer Whalen	10	No commission
Michael Hartstein	20	No commission
Pat Fay	20	No commission
Susan Mavris	40	No commission
Hermann Baer	70	No commission

19. Display the employee's name, salary and commission multiplied by 2. If an Employee doesn't earn the commission, then display as 'No commission. Name the columns appropriately

employee_name	salary	double_commission			
Steven King	24000.00	No commission	Stephen Stiles	3200.00	No commission
Neena Kochhar	17000.00	No commission	John Seo	2700.00	No commission
Lex De Haan	17000.00	No commission	Joshua Patel	2500.00	No commission
Alexander Hunold	9000.00	No commission	Trenna Rajs	3500.00	No commission
Bruce Ernst	6000.00	No commission	Curtis Davies	3100.00	No commission
David Austin	4800.00	No commission	Randall Matos	2600.00	No commission
Valli Pataballa	4800.00	No commission	Peter Vargas	2500.00	No commission
Diana Lorentz	4200.00	No commission	John Russell	14000.00	0.80
Nancy Greenberg	12000.00	No commission	Karen Partners	13500.00	0.60
Daniel Faviet	9000.00	No commission	Alberto Errazuriz	12000.00	0.60
John Chen	8200.00	No commission	Gerald Cambrault	11000.00	0.60
Ismael Sciarra	7700.00	No commission	Eleni Zlotkey	10500.00	0.40
Jose Manuel Urman	7800.00	No commission	Peter Tucker	10000.00	0.60
Luis Popp	6900.00	No commission	David Bernstein	9500.00	0.50
Den Raphaely	11000.00	No commission	Peter Hall	9000.00	0.50
Alexander Khoo	3100.00	No commission	Christopher Olsen	8000.00	0.40
Shelli Baida	2900.00	No commission	Nanette Cambrault	7500.00	0.40
Sigal Tobias	2800.00	No commission	Oliver Tuvault	7000.00	0.30
Guy Himuro	2600.00	No commission	Janette King	10000.00	0.70
Karen Colmenares	2500.00	No commission	Patrick Sully	9500.00	0.70
Matthew Weiss	8000.00	No commission	Allan McEwen	9000.00	0.70
Adam Fripp	8200.00	No commission	Lindsey Smith	8000.00	0.60
Payam Kaufling	7900.00	No commission	Louise Doran	7500.00	0.60
Shanta Vollman	6500.00	No commission	Sarath Sewall	7000.00	0.50
Kevin Mourgos	5800.00	No commission	Clara Vishney	10500.00	0.50
Julia Nayer	3200.00	No commission	Danielle Greene	9500.00	0.30
Irene Mikkilineni	2700.00	No commission	Mattea Marvins	7200.00	0.20
James Landry	2400.00	No commission	David Lee	6800.00	0.20
Steven Markle	2200.00	No commission	Sundar Ande	6400.00	0.20
Laura Bissot	3300.00	No commission	Amit Banda	6200.00	0.20
Mozhe Atkinson	2800.00	No commission	Lisa Ozer	11500.00	0.50
James Marlow	2500.00	No commission	Harrison Bloom	10000.00	0.40
TJ Olson	2100.00	No commission	Tayler Fox	9600.00	0.40
Jason Mallin	3300.00	No commission	William Smith	7400.00	0.30
Michael Rogers	2900.00	No commission	Elizabeth Bates	7300.00	0.30
Ki Gee	2400.00	No commission	Sundita Kumar	6100.00	0.20
14 000					
Hazel Philtanker	2200.00	No commission	Ellen Abel	11000.00	0.60

I		
Jonathon Taylor	8600.00	0.40
Jack Livingston	8400.00	0.40
Kimberely Grant	7000.00	0.30
Charles Johnson	6200.00	0.20
Winston Taylor	3200.00	No commission
Jean Fleaur	3100.00	No commission
Martha Sullivan	2500.00	No commission
Girard Geoni	2800.00	No commission
Nandita Sarchand	4200.00	No commission
Alexis Bull	4100.00	No commission
Julia Dellinger	3400.00	No commission
Anthony Cabrio	3000.00	No commission
Kelly Chung	3800.00	No commission
Jennifer Dilly	3600.00	No commission
Timothy Gates	2900.00	No commission
Randall Perkins	2500.00	No commission
Sarah Bell	4000.00	No commission
Britney Everett	3900.00	No commission
Samuel McCain	3200.00	No commission
Vance Jones	2800.00	No commission
Alana Walsh	3100.00	No commission
Kevin Feeney	3000.00	No commission
Donald OConnell	2600.00	No commission
Douglas Grant	2600.00	No commission
Jennifer Whalen	4400.00	No commission
Michael Hartstein	13000.00	No commission
Pat Fay	6000.00	No commission
Susan Mavris	6500.00	No commission
Hermann Baer	10000.00	No commission
Shelley Higgins	12000.00	No commission
William Gietz	8300.00	No commission

20. Display the employee's name, department id who have the first name same as another employee in the same department

select e1.first_name, e1.last_name, e1.department_id from employees e1 join employees e2 on e1.first_name = e2.first_name and e1.department_id = e2.department_id and e1.employee_id <> e2.employee_id order by e1.department_id, e1.first_name;

first_name	last_name	department_id
James	Marlow	50
James	Landry	50
Julia	Dellinger	50
Julia	Nayer	50
Kevin	Feeney	50
Kevin	Mourgos	50
Randall	Perkins	50
Randall	Matos	50
David	Bernstein	80
David	Lee	80
Peter	Tucker	80
Peter	Hall	80

21. Display the sum of salaries of the employees working under each Manager.

select manager_id, sum(salary) as total_salary from employees where manager_id is not null group by manager_id order by manager_id;

manager_id	total_salary
100	155400.00
101	44900.00
102	9000.00
103	19800.00
108	39600.00
114	13900.00
120	22100.00
121	25400.00
122	23600.00
123	25900.00
124	23000.00
145	51000.00
146	51000.00
147	46600.00
148	51900.00
149	50000.00
201	6000.00
205	8300.00

22. Select the Managers name, the count of employees working under and the department ID of the manager.

manager_name	employee_count	department_id
0	1	20
0	5	30
0	8	50
0	8	50
0	8	50
0	8	50
0	8	50
0	4	60
0	6	80
0	6	80
0	6	80
0	6	80
0	6	80
0	14	90
0	5	90
0	1	90
0	5	100
0	1	110

23. Select the employee name, department id, and the salary. Group the result with the manager name and the employee last name should have second letter 'a!

Anthony Cabrio 50 3000.00 Adam Fripp James Marlow 50 2500.00 Adam Fripp Nandita Sarchand 50 4200.00 Adam Fripp Amit Banda 80 6200.00 Alberto Erra Mattea Marvins 80 7200.00 Alberto Erra Valli Pataballa 60 4800.00 Alexander H Shelli Baida 30 2900.00 Den Raphae Jonathon Taylor 80 8600.00 Eleni Zlotker Elizabeth Bates 80 7300.00 Gerald Cam Nanette Cambrault 80 7500.00 John Russel Peter Hall 80 9000.00 John Russel Alana Walsh 50 3100.00 Kevin Mourg Curtis Davies 50 3100.00 Kevin Mourg Reter Vargas 50 2500.00 Kevin Mourg Randall Matos 50 3500.00 Kevin Mourg Trenna Rajs 50 3500.00 Matthew W James Landry 50	name
Nandita Sarchand 50 4200.00 Adam Fripp Amit Banda 80 6200.00 Alberto Erra Mattea Marvins 80 7200.00 Alberto Erra Valli Pataballa 60 4800.00 Alexander H Shelli Baida 30 2900.00 Den Raphae Jonathon Taylor 80 8600.00 Eleni Zlotker Elizabeth Bates 80 7300.00 Gerald Cam Nanette Cambrault 80 7500.00 John Russel Peter Hall 80 9000.00 John Russel Alana Walsh 50 3100.00 Kevin Mourg Curtis Davies 50 3100.00 Kevin Mourg Peter Vargas 50 2500.00 Kevin Mourg Randall Matos 50 3500.00 Kevin Mourg James Landry 50 3500.00 Matthew W Julia Nayer 50 3200.00 Matthew W	
Amit Banda 80 6200.00 Alberto Erra Mattea Marvins 80 7200.00 Alberto Erra Valli Pataballa 60 4800.00 Alexander H Shelli Baida 30 2900.00 Den Raphae Jonathon Taylor 80 8600.00 Eleni Zlotker Elizabeth Bates 80 7300.00 Gerald Cam Nanette Cambrault 80 7500.00 John Russel Peter Hall 80 9000.00 John Russel Alana Walsh 50 3100.00 Kevin Mourg Curtis Davies 50 3100.00 Kevin Mourg Peter Vargas 50 2500.00 Kevin Mourg Randall Matos 50 2600.00 Kevin Mourg Trenna Rajs 50 3500.00 Kevin Mourg James Landry 50 3200.00 Matthew W	
Mattea Marvins 80 7200.00 Alberto Erra Valli Pataballa 60 4800.00 Alexander H Shelli Baida 30 2900.00 Den Raphae Jonathon Taylor 80 8600.00 Eleni Zlotker Elizabeth Bates 80 7300.00 Gerald Cam Nanette Cambrault 80 7500.00 John Russel Peter Hall 80 9000.00 John Russel Alana Walsh 50 3100.00 Kevin Mourg Curtis Davies 50 3100.00 Kevin Mourg Peter Vargas 50 2500.00 Kevin Mourg Randall Matos 50 2600.00 Kevin Mourg Trenna Rajs 50 3500.00 Kevin Mourg James Landry 50 3200.00 Matthew W	
Valli Pataballa 60 4800.00 Alexander H Shelli Baida 30 2900.00 Den Raphae Jonathon Taylor 80 8600.00 Eleni Zlotker Elizabeth Bates 80 7300.00 Gerald Cam Nanette Cambrault 80 7500.00 John Russel Peter Hall 80 9000.00 John Russel Alana Walsh 50 3100.00 Kevin Mourg Curtis Davies 50 3100.00 Kevin Mourg Peter Vargas 50 2500.00 Kevin Mourg Randall Matos 50 2600.00 Kevin Mourg Trenna Rajs 50 3500.00 Kevin Mourg James Landry 50 2400.00 Matthew W Julia Nayer 50 3200.00 Matthew W	azuriz
Shelli Baida 30 2900.00 Den Raphae Jonathon Taylor 80 8600.00 Eleni Zlotker Elizabeth Bates 80 7300.00 Gerald Cam Nanette Cambrault 80 7500.00 John Russel Peter Hall 80 9000.00 John Russel Alana Walsh 50 3100.00 Kevin Mourg Curtis Davies 50 3100.00 Kevin Mourg Peter Vargas 50 2500.00 Kevin Mourg Randall Matos 50 2600.00 Kevin Mourg Trenna Rajs 50 3500.00 Kevin Mourg James Landry 50 2400.00 Matthew W Julia Nayer 50 3200.00 Matthew W	azuriz
Jonathon Taylor 80 8600.00 Eleni Zlotker Elizabeth Bates 80 7300.00 Gerald Cam Nanette Cambrault 80 7500.00 John Russel Peter Hall 80 9000.00 John Russel Alana Walsh 50 3100.00 Kevin Mourg Curtis Davies 50 3100.00 Kevin Mourg Peter Vargas 50 2500.00 Kevin Mourg Randall Matos 50 2600.00 Kevin Mourg Trenna Rajs 50 3500.00 Kevin Mourg James Landry 50 2400.00 Matthew W Julia Nayer 50 3200.00 Matthew W	Hunold
Elizabeth Bates 80 7300.00 Gerald Cam Nanette Cambrault 80 7500.00 John Russel Peter Hall 80 9000.00 John Russel Alana Walsh 50 3100.00 Kevin Mourg Curtis Davies 50 3100.00 Kevin Mourg Peter Vargas 50 2500.00 Kevin Mourg Randall Matos 50 2600.00 Kevin Mourg Trenna Rajs 50 3500.00 Kevin Mourg James Landry 50 2400.00 Matthew W Julia Nayer 50 3200.00 Matthew W	ely
Nanette Cambrault 80 7500.00 John Russel Peter Hall 80 9000.00 John Russel Alana Walsh 50 3100.00 Kevin Mourg Curtis Davies 50 3100.00 Kevin Mourg Peter Vargas 50 2500.00 Kevin Mourg Randall Matos 50 2600.00 Kevin Mourg Trenna Rajs 50 3500.00 Kevin Mourg James Landry 50 2400.00 Matthew W Julia Nayer 50 3200.00 Matthew W	y
Peter Hall 80 9000.00 John Russel Alana Walsh 50 3100.00 Kevin Mourg Curtis Davies 50 3100.00 Kevin Mourg Peter Vargas 50 2500.00 Kevin Mourg Randall Matos 50 2600.00 Kevin Mourg Trenna Rajs 50 3500.00 Kevin Mourg James Landry 50 2400.00 Matthew W Julia Nayer 50 3200.00 Matthew W	brault
Alana Walsh 50 3100.00 Kevin Mourg Curtis Davies 50 3100.00 Kevin Mourg Peter Vargas 50 2500.00 Kevin Mourg Randall Matos 50 2600.00 Kevin Mourg Trenna Rajs 50 3500.00 Kevin Mourg James Landry 50 2400.00 Matthew W Julia Nayer 50 3200.00 Matthew W	I
Curtis Davies 50 3100.00 Kevin Mourg Peter Vargas 50 2500.00 Kevin Mourg Randall Matos 50 2600.00 Kevin Mourg Trenna Rajs 50 3500.00 Kevin Mourg James Landry 50 2400.00 Matthew W Julia Nayer 50 3200.00 Matthew W	I
Peter Vargas 50 2500.00 Kevin Mourg Randall Matos 50 2600.00 Kevin Mourg Trenna Rajs 50 3500.00 Kevin Mourg James Landry 50 2400.00 Matthew W Julia Nayer 50 3200.00 Matthew W	gos
Randall Matos 50 2600.00 Kevin Mourg Trenna Rajs 50 3500.00 Kevin Mourg James Landry 50 2400.00 Matthew W Julia Nayer 50 3200.00 Matthew W	gos
Trenna Rajs 50 3500.00 Kevin Mourg James Landry 50 2400.00 Matthew W Julia Nayer 50 3200.00 Matthew W	gos
James Landry 50 2400.00 Matthew W Julia Nayer 50 3200.00 Matthew W	gos
Julia Nayer 50 3200.00 Matthew W	jos
2230100 1121211111	eiss
	eiss
Steven Markle 50 2200.00 Matthew W	eiss
Winston Taylor 50 3200.00 Matthew W	eiss
Pat Fay 20 6000.00 Michael Har	tstein
Daniel Faviet 100 9000.00 Nancy Gree	nberg
Hermann Baer 70 10000.00 Neena Koch	har
Susan Mavris 40 6500.00 Neena Koch	har
Jason Mallin 50 3300.00 Payam Kauf	fling
Timothy Gates 50 2900.00 Payam Kauf	fling
Joshua Patel 50 2500.00 Shanta Vollr	man
Renske Ladwig 50 3600.00 Shanta Vollr	man
Den Raphaely 30 11000.00 Steven King)
Gerald Cambrault 80 11000.00 Steven King)
Karen Partners 80 13500.00 Steven King)
Michael Hartstein 20 13000.00 Steven King)
Payam Kaufling 50 7900.00 Steven King)

24. Display the average of sum of the salaries and group the result with the department id. Order the result with the department id.

select department_id, avg(sum(salary)) over () as avg_salary from employees group by department_id order by department_id;

department_id	avg_salary
NULL	57616.666667
10	57616.666667
20	57616.666667
30	57616.666667
40	57616.666667
50	57616.666667
60	57616.666667
70	57616.666667
80	57616.666667
90	57616.666667
100	57616.666667
110	57616.666667

25. Select the maximum salary of each department along with the department id

select department_id, max(salary) as max_salary from employees group by department_id order by department_id;

department_id	max_salary
NULL	7000.00
10	4400.00
20	13000.00
30	11000.00
40	6500.00
50	8200.00
60	9000.00
70	10000.00
80	14000.00
90	24000.00
100	12000.00
110	12000.00

26. Display the commission, if not null display 10% of salary, if null display a default value 1

```
select employee_id,
    salary,
    case
    when commission_pct is not null then salary * 0.10
    else 1
    end as commission_value
from employees;
```

employee_id	salary	commission_value	employee_id	salary	commission_value
100	24000.00	1	138	3200.00	1
101	17000.00	1	139	2700.00	1
102	17000.00	1	140	2500.00	1
103	9000.00	1	141	3500.00	1
104	6000.00	1	142	3100.00	1
105	4800.00	1	143	2600.00	1
106	4800.00	1	144	2500.00	1
107	4200.00	1	145	14000.00	1400.0000
108	12000.00	1	146	13500.00	1350.0000
109	9000.00	1	147	12000.00	1200.0000
110	8200.00	1	148	11000.00	1100.0000
111	7700.00	1	149	10500.00	1050.0000
112	7800.00	1	150	10000.00	1000.0000
113	6900.00	1	151	9500.00	950.0000
114	11000.00	1	152	9000.00	900.0000
115	3100.00	1	153	8000.00	800.0000
116	2900.00	1	154	7500.00	750.0000
117	2800.00	1	155	7000.00	700.0000
118	2600.00	1	156	10000.00	1000.0000
119	2500.00	1	157	9500.00	950.0000
120	8000.00	1	158	9000.00	900.0000
121	8200.00	1	159	8000.00	800.0000
122	7900.00	1	160	7500.00	750.0000
123	6500.00	1	161	7000.00	700.0000
124	5800.00	1	162	10500.00	1050.0000
125	3200.00	1	163	9500.00	950.0000
126	2700.00	1	164	7200.00	720.0000
127	2400.00	1	165	6800.00	680.0000
128	2200.00	1	166	6400.00	640.0000
129	3300.00	1	167	6200.00	620.0000
130	2800.00	1	168	11500.00	1150.0000
131	2500.00	1	169	10000.00	1000.0000
132	2100.00	1	170	9600.00	960.0000
133	3300.00	1	171	7400.00	740.0000
134	2900.00	1	172	7300.00	730.0000
135	2400.00	1	173	6100.00	610.0000
136	2200.00	1	174	11000.00	1100.0000
137	3600.00	1	175	8800.00	880.0000

176	8600.00	860.0000
177	8400.00	840.0000
178	7000.00	700.0000
179	6200.00	620.0000
180	3200.00	1
181	3100.00	1
182	2500.00	1
183	2800.00	1
184	4200.00	1
185	4100.00	1
186	3400.00	1
187	3000.00	1
188	3800.00	1
189	3600.00	1
190	2900.00	1
191	2500.00	1
192	4000.00	1
193	3900.00	1
194	3200.00	1
195	2800.00	1
196	3100.00	1
197	3000.00	1
198	2600.00	1
199	2600.00	1
200	4400.00	1
201	13000.00	1
202	6000.00	1
203	6500.00	1
204	10000.00	1
205	12000.00	1
206	8300.00	1

27. Write a query that displays the employee's last names only from the string's 2-5th position with the first letter capitalized and all other letters lowercase, Give each column an appropriate label.

select concat(upper(substr(last_name, 2, 1)), lower(substr(last_name, 3, 4))) as formatted_name from employees;

formatted_name	formatted_name	
Ing	Tiles	
Ochha	Eo	
E haa	Atel	
Unold	Ajs	
Rnst	Avies	
Ustin	Atos	
Ataba	Argas	
Orent	Ussel	Aylor
Reenb	Artne	Iving
Aviet	Rrazu	Rant
Hen	Ambra	Ohnso
Ciarr	Lotke	Aylor
Rman	Ucker	Leaur
Орр	Ernst	Ulliv
Aphae	All	Eoni
Hoo	Lsen	Archa
Aida	Ambra	Ull
Obias	Uvaul	Ellin
Imuro	Ing	Abrio
Olmen	Ully	Hung
Eiss	Cewen	Illy
Ripp	Mith	Ates
Aufli	Oran	Erkin
Ollma	Ewall	Ell
Ourgo	Ishne	Veret
Ayer	Reene	Ccain
Ikkil	Arvin	Ones
Andry	Ee	Alsh
Arkle	Nde	Eeney
Issot	Anda	Conne
Tkins	Zer	Rant
Arlow	Loom	Halen
Lson	Ox	Artst
Allin	Mith	Ay
Ogers	Ates	Avris
Ee	Umar	Aer
Hilta	Bel	Iggin
Adwia	Utton	Ietz

28. Write a query that displays the employee's first name and last name along with a " in between for e.g.: first name: Ram; last name: Kumar then Ram-Kumar. Also displays the month on which the employee has joined.

full_name	joining_month	full_name	joining_month		
Steven-King	June	Stephen-Stiles	October		
Neena-Kochhar	September	John-Seo	February		
Lex-De Haan	January	Joshua-Patel	April		
Alexander-Hunold	January	Trenna-Rajs	October		
Bruce-Ernst	May	Curtis-Davies	January		
David-Austin	June	Randall-Matos	March		
Valli-Pataballa	February	Peter-Vargas	July		
Diana-Lorentz	February	John-Russell	October	Jonathon-Taylor	March
Nancy-Greenberg	August	Karen-Partners	January	Jack-Livingston	April
Daniel-Faviet	August	Alberto-Errazuriz	March	Kimberely-Grant	May
John-Chen	September	Gerald-Cambrault	October	Charles-Johnson	January
Ismael-Sciarra	September	Eleni-Zlotkey	January	Winston-Taylor	January
Jose Manuel-Urman		Peter-Tucker	January	Jean-Fleaur	February
Luis-Popp	December	David-Bernstein	March	Martha-Sullivan	June
Den-Raphaely	December	Peter-Hall	August	Girard-Geoni	February
Alexander-Khoo	May	Christopher-Olsen	March	Nandita-Sarchand	January
Shelli-Baida	December	Nanette-Cambrault	December	Alexis-Bull	February
Sigal-Tobias	July	Oliver-Tuvault	November	Julia-Dellinger	June
Guy-Himuro	November	Janette-King	January	Anthony-Cabrio	February
Karen-Colmenares	August	Patrick-Sully	March	Kelly-Chung	June
Matthew-Weiss	July	Allan-McEwen	August	Jennifer-Dilly	August
Adam-Fripp	April	Lindsey-Smith	March	Timothy-Gates	July
Payam-Kaufling	May	Louise-Doran	December	Randall-Perkins	December
Shanta-Vollman	October	Sarath-Sewall	November	Sarah-Bell	February
Kevin-Mourgos	November	Clara-Vishney	November	Britney-Everett	March
Julia-Nayer	July	Danielle-Greene	March	Samuel-McCain	July
Irene-Mikkilineni	September	Mattea-Marvins	January	Vance-Jones	March
James-Landry	January	David-Lee	February	Alana-Walsh	April
Steven-Markle	March	Sundar-Ande	March	Kevin-Feeney	May
Laura-Bissot	August	Amit-Banda	April	Donald-OConnell	June
Mozhe-Atkinson	October	Lisa-Ozer	March	Douglas-Grant	January
James-Marlow	February	Harrison-Bloom	March	Jennifer-Whalen	September
TJ-Olson	April	Tayler-Fox	January	Michael-Hartstein	February
Jason-Mallin	June	William-Smith	February	Pat-Fay	August
Michael-Rogers	August	Elizabeth-Bates	March	Susan-Mavris	June
Ki-Gee	December	Sundita-Kumar	April	Hermann-Baer	June
Hazel-Philtanker	February	Ellen-Abel	May	Shelley-Higgins	June
Renske-Ladwig	July	Alyssa-Hutton	March	William-Gietz	June

29. Write a query to display the employee's last name and if half of the salary is greater than ten thousand then increase the salary by 10% else by 11.5% along with the bonus amount of 1500 each. Provide each column an appropriate label.

```
select last_name,
salary,
case
when salary / 2 > 10000 then salary * 1.10 -- Increase by 10%
else salary * 1.115 -- Increase by 11.5%
end as updated_salary,
1500 as bonus_amount
from employees;
```

last_name	salary	updated_salary	bonus_amount	last_name	salary	updated_salary	bonus_amoun
King	24000.00	26400.0000	1500	Stiles	3200.00	3568.00000	1500
Kochhar	17000.00	18955.00000	1500	Seo	2700.00	3010.50000	1500
De Haan	17000.00	18955.00000	1500	Patel	2500.00	2787.50000	1500
Hunold	9000.00	10035.00000	1500	Rajs	3500.00	3902.50000	1500
Ernst	6000.00	6690.00000	1500	Davies	3100.00	3456.50000	1500
Austin	4800.00	5352.00000	1500	Matos	2600.00	2899.00000	1500
Pataballa	4800.00	5352.00000	1500	Vargas	2500.00	2787.50000	1500
Lorentz	4200.00	4683.00000	1500	Russell	14000.00	15610.00000	1500
Greenberg	12000.00	13380.00000	1500	Partners	13500.00	15052.50000	1500
Faviet	9000.00	10035.00000	1500	Errazuriz	12000.00	13380.00000	1500
Chen	8200.00	9143.00000	1500	Cambrault	11000.00	12265.00000	1500
Sciarra	7700.00	8585.50000	1500	Zlotkey	10500.00	11707.50000	1500
Urman	7800.00	8697.00000	1500	Tucker	10000.00	11150.00000	1500
Рорр	6900.00	7693.50000	1500	Bernstein	9500.00	10592.50000	1500
Raphaely	11000.00	12265.00000	1500	Hall	9000.00	10035.00000	1500
Khoo	3100.00	3456.50000	1500	Olsen	8000.00	8920.00000	1500
Baida	2900.00	3233.50000	1500	Cambrault	7500.00	8362.50000	1500
Tobias	2800.00	3122.00000	1500	Tuvault	7000.00	7805.00000	1500
Himuro	2600.00	2899.00000	1500	King	10000.00	11150.00000	1500
Colmenares	2500.00	2787.50000	1500	Sully	9500.00	10592.50000	1500
Weiss	8000.00	8920.00000	1500	McEwen	9000.00	10035.00000	1500
Fripp	8200.00	9143.00000	1500	Smith	8000.00	8920.00000	1500
Kaufling	7900.00	8808,50000	1500	Doran	7500.00	8362.50000	1500
Vollman	6500.00	7247,50000	1500	Sewall	7000.00	7805.00000	1500
Mourgos	5800.00	6467.00000	1500	Vishney	10500.00	11707.50000	1500
Nayer	3200.00	3568.00000	1500	Greene	9500.00	10592.50000	1500
Mikkilineni	2700.00	3010.50000	1500	Marvins	7200.00	8028.00000	1500
Landry	2400.00	2676.00000	1500	Lee	6800.00	7582.00000	1500
Markle	2200.00	2453,00000	1500	Ande	6400.00	7136.00000	1500
Bissot	3300.00	3679.50000	1500	Banda	6200.00	6913.00000	1500
Atkinson	2800.00	3122.00000	1500	Ozer	11500.00	12822.50000	1500
Marlow	2500.00	2787,50000	1500	Bloom	10000.00	11150.00000	1500
Olson	2100.00	2341,50000	1500	Fox	9600.00	10704.00000	1500
Mallin	3300.00	3679.50000	1500	Smith	7400.00	8251.00000	1500
Rogers	2900.00	3233,50000	1500	Bates	7300.00	8139.50000	1500
Gee	2400.00	2676.00000	1500	Kumar	6100.00	6801.50000	1500
Philtanker	2200.00	2453.00000	1500	Abel	11000.00	12265.00000	1500
Ladwig	3600.00	4014.00000	1500	Hutton	8800.00	9812.00000	1500

	0500.00	0500 00000	4500
Taylor	8600.00	9589.00000	1500
LIVINGSTOF	8400.00	9366.00000	1500
Grant	7000.00	7805.00000	1500
Johnson	6200.00	6913.00000	1500
Taylor	3200.00	3568.00000	1500
Fleaur	3100.00	3456.50000	1500
Sullivan	2500.00	2787.50000	1500
Geoni	2800.00	3122.00000	1500
Sarchand	4200.00	4683.00000	1500
Bull	4100.00	4571.50000	1500
Dellinger	3400.00	3791.00000	1500
Cabrio	3000.00	3345.00000	1500
Chung	3800.00	4237.00000	1500
Dilly	3600.00	4014.00000	1500
Gates	2900.00	3233.50000	1500
Perkins	2500.00	2787.50000	1500
Bell	4000.00	4460.00000	1500
Everett	3900.00	4348.50000	1500
McCain	3200.00	3568.00000	1500
Jones	2800.00	3122.00000	1500
Walsh	3100.00	3456.50000	1500
Feeney	3000.00	3345.00000	1500
OConnell	2600.00	2899.00000	1500
Grant	2600.00	2899.00000	1500
Whalen	4400.00	4906.00000	1500
Hartstein	13000.00	14495.00000	1500
Fay	6000.00	6690.00000	1500
Mavris	6500.00	7247.50000	1500
Baer	10000.00	11150.00000	1500
Higgins	12000.00	13380.00000	1500
Gietz	8300.00	9254.50000	1500

30. Display the employee ID by Appending two zeros after 2nd digit and 'E' in the end, department id, salary and the manager name all in Upper case, if the Manager name consists of 'z' replace it with '\$!

formatted_employee_id	department_id	salary	manager_name	formatted_employee_id	department_id	salary	manager_name
10000E	90	24000.00	NULL	13006E	50	2200.00	PAYAM KAUFLING
10001E	90	17000.00	STEVEN KING	13007E	50	3600.00	SHANTA VOLLMAN
10002E	90	17000.00	STEVEN KING	13008E	50	3200.00	SHANTA VOLLMAN
10003E	60	9000.00	LEX DE HAAN	13009E	50	2700.00	SHANTA VOLLMAN
10004E	60	6000.00	ALEXANDER HUNOLD	14000E	50	2500.00	SHANTA VOLLMAN
10005E	60	4800.00	ALEXANDER HUNOLD	14001E	50	3500.00	KEVIN MOURGOS
10006E	60	4800.00	ALEXANDER HUNOLD	14002E	50	3100.00	KEVIN MOURGOS
10007E	60	4200.00	ALEXANDER HUNOLD	14003E	50	2600.00	KEVIN MOURGOS
10008E	100	12000.00	NEENA KOCHHAR	14004E	50	2500.00	KEVIN MOURGOS
10009E	100	9000.00	NANCY GREENBERG	14005E	80	14000.00	STEVEN KING
11000E	100	8200.00	NANCY GREENBERG	14006E	80	13500.00	STEVEN KING
11001E	100	7700.00	NANCY GREENBERG	14007E	80	12000.00	STEVEN KING
11002E	100	7800.00	NANCY GREENBERG	14008E	80	11000.00	STEVEN KING
11003E	100	6900.00	NANCY GREENBERG	14009E	80	10500.00	STEVEN KING
11004E	30	11000.00	STEVEN KING	15000E	80	10000.00	JOHN RUSSELL
11005E	30	3100.00	DEN RAPHAELY	15001E	80	9500.00	JOHN RUSSELL
11006E	30	2900.00	DEN RAPHAELY	15002E	80	9000.00	JOHN RUSSELL
11007E	30	2800.00	DEN RAPHAELY	15003E	80	8000.00	JOHN RUSSELL
11008E	30	2600.00	DEN RAPHAELY	15004E	80	7500.00	JOHN RUSSELL
11009E	30	2500.00	DEN RAPHAELY	15005E	80	7000.00	JOHN RUSSELL
12000E	50	8000.00	STEVEN KING	15006E	80	10000.00	KAREN PARTNERS
12001E	50	8200.00	STEVEN KING	15007E	80	9500.00	KAREN PARTNERS
12002E	50	7900.00	STEVEN KING	15008E	80	9000.00	KAREN PARTNERS
12003E	50	6500.00	STEVEN KING	15009E	80	8000.00	KAREN PARTNERS
12004E	50	5800.00	STEVEN KING	16000E	80	7500.00	KAREN PARTNERS
12005E	50	3200.00	MATTHEW WEISS	16001E	80	7000.00	KAREN PARTNERS
12006E	50	2700.00	MATTHEW WEISS	16002E	80	10500.00	ALBERTO ERRA\$URI
12007E	50	2400.00	MATTHEW WEISS	16003E	80	9500.00	ALBERTO ERRA\$URI
12008E	50	2200.00	MATTHEW WEISS	16004E	80	7200.00	ALBERTO ERRA\$URI
12009E	50	3300.00	ADAM FRIPP	16005E	80	6800.00	ALBERTO ERRA\$URI
13000E	50	2800.00	ADAM FRIPP	16006E	80	6400.00	ALBERTO ERRA\$URI
13001E	50	2500.00	ADAM FRIPP	16007E	80	6200.00	ALBERTO ERRA\$URI
13002E	50	2100.00	ADAM FRIPP	16008E	80	11500.00	GERALD CAMBRAULT
13003E	50	3300.00	PAYAM KAUFLING	16009E	80	10000.00	GERALD CAMBRAULT
13004E	50	2900.00	PAYAM KAUFLING	17000E	80	9600.00	GERALD CAMBRAULT
13005E	50	2400.00	PAYAM KAUFLING	17001E	80	7400.00	GERALD CAMBRAULT

17002E	80	7300.00	GERALD CAMBRAULT
17003E	80	6100.00	GERALD CAMBRAULT
17004E	80	11000.00	ELENI ZLOTKEY
17005E	80	8800.00	ELENI ZLOTKEY
17006E	80	8600.00	ELENI ZLOTKEY
17007E	80	8400.00	ELENI ZLOTKEY
17008E	NULL	7000.00	ELENI ZLOTKEY
17009E	80	6200.00	ELENI ZLOTKEY
18000E	50	3200.00	MATTHEW WEISS
18001E	50	3100.00	MATTHEW WEISS
18002E	50	2500.00	MATTHEW WEISS
18003E	50	2800.00	MATTHEW WEISS
18004E	50	4200.00	ADAM FRIPP
18005E	50	4100.00	ADAM FRIPP
18006E	50	3400.00	ADAM FRIPP
18007E	50	3000.00	ADAM FRIPP
18008E	50	3800.00	PAYAM KAUFLING
18009E	50	3600.00	PAYAM KAUFLING
19000E	50	2900.00	PAYAM KAUFLING
19001E	50	2500.00	PAYAM KAUFLING
19002E	50	4000.00	SHANTA VOLLMAN
19003E	50	3900.00	SHANTA VOLLMAN
19004E	50	3200.00	SHANTA VOLLMAN
19005E	50	2800.00	SHANTA VOLLMAN
19006E	50	3100.00	KEVIN MOURGOS
19007E	50	3000.00	KEVIN MOURGOS
19008E	50	2600.00	KEVIN MOURGOS
19009E	50	2600.00	KEVIN MOURGOS
20000E	10	4400.00	NEENA KOCHHAR
20001E	20	13000.00	STEVEN KING
20002E	20	6000.00	MICHAEL HARTSTEIN
20003E	40	6500.00	NEENA KOCHHAR
20004E	70	10000.00	NEENA KOCHHAR
20005E	110	12000.00	NEENA KOCHHAR
20006E	110	8300.00	SHELLEY HIGGINS

31. Write a query that displays the employee's last names with the first letter capitalized and all other letters lowercase, and the length of the names, for all employees whose name starts with J, A, or M. Give each column an appropriate label. Sort the results by the employees' last names

select concat(upper(left(last_name, 1)), lower(substring(last_name, 2))) as formatted_last_name,

length(last_name) as name_length

from employees

where last_name like 'J%' or last_name like 'A%' or last_name like 'M%' order by last_name;

formatted_last_name	name_length
Abel	4
Ande	4
Atkinson	8
Austin	6
Johnson	7
Jones	5
Mallin	6
Markle	6
Marlow	6
Marvins	7
Matos	5
Mavris	6
Mccain	6
Mcewen	6
Mikkilineni	11
Mourgos	7

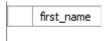
32. Create a query to display the last name and salary for all employees. Format the salary to be 15 characters long, left-padded with \$. Label the column SALARY

select last_name, lpad(salary, 15, '\$') as salary from employees;

last_name	salary	last_name	salary		
King	\$\$\$\$\$\$\$24000.00	Stiles	\$\$\$\$\$\$\$\$3200.00		
Kochhar	\$\$\$\$\$\$\$17000.00	Seo	\$\$\$\$\$\$\$\$2700.00		
De Haan	\$\$\$\$\$\$\$17000.00	Patel	\$\$\$\$\$\$\$\$2500.00		
Hunold	\$\$\$\$\$\$\$9000.00	Rajs	\$\$\$\$\$\$\$\$3500.00		
Ernst	\$\$\$\$\$\$\$6000.00	Davies	\$\$\$\$\$\$\$\$3100.00		
Austin	\$\$\$\$\$\$\$\$4800.00	Matos	\$\$\$\$\$\$\$\$2600.00		
Pataballa	\$\$\$\$\$\$\$\$4800.00	Vargas	\$\$\$\$\$\$\$\$2500.00		
Lorentz	\$\$\$\$\$\$\$4200.00	Russell	\$\$\$\$\$\$\$14000.00	Taylor	\$\$\$\$\$\$\$\$8600.00
Greenberg	\$\$\$\$\$\$\$12000.00	Partners	\$\$\$\$\$\$\$13500.00	Livingston	\$\$\$\$\$\$\$\$8400.00
Faviet	\$\$\$\$\$\$\$9000.00	Errazuriz	\$\$\$\$\$\$\$12000.00	Grant	\$\$\$\$\$\$\$\$7000.00
Chen	\$\$\$\$\$\$\$\$8200.00	Cambrault	\$\$\$\$\$\$\$11000.00	Johnson	\$\$\$\$\$\$\$6200.00
Sciarra	\$\$\$\$\$\$\$7700.00	Zlotkey	\$\$\$\$\$\$\$10500.00	Taylor	\$\$\$\$\$\$\$\$3200.00
Urman	\$\$\$\$\$\$\$\$7800.00	Tucker	\$\$\$\$\$\$\$10000.00	Fleaur	\$\$\$\$\$\$\$\$3100.00
Popp	\$\$\$\$\$\$\$6900.00	Bernstein	\$\$\$\$\$\$\$\$9500.00	Sullivan	\$\$\$\$\$\$\$\$2500.00
Raphaely	\$\$\$\$\$\$\$11000.00	Hall	\$\$\$\$\$\$\$\$9000.00	Geoni	\$\$\$\$\$\$\$\$2800.00
Khoo	\$\$\$\$\$\$\$3100.00	Olsen	\$\$\$\$\$\$\$\$8000.00	Sarchand	\$\$\$\$\$\$\$\$4200.00
Baida	\$\$\$\$\$\$\$\$2900.00	Cambrault	\$\$\$\$\$\$\$\$7500.00	Bull	\$\$\$\$\$\$\$\$4100.00
Tobias	\$\$\$\$\$\$\$\$2800.00	Tuvault	\$\$\$\$\$\$\$7000.00	Dellinger	\$\$\$\$\$\$\$\$3400.00
Himuro	\$\$\$\$\$\$\$\$2600.00	King	\$\$\$\$\$\$\$10000.00	Cabrio	\$\$\$\$\$\$\$\$3000.00
Colmenares	\$\$\$\$\$\$\$\$2500.00	Sully	\$\$\$\$\$\$\$\$9500.00	Chung	\$\$\$\$\$\$\$\$3800.00
Weiss	\$\$\$\$\$\$\$\$8000.00	McEwen	\$\$\$\$\$\$\$\$9000.00	Dilly	\$\$\$\$\$\$\$\$3600.00
Fripp	\$\$\$\$\$\$\$\$8200.00	Smith	\$\$\$\$\$\$\$\$8000.00	Gates	\$\$\$\$\$\$\$\$2900.00
Kaufling	\$\$\$\$\$\$\$\$7900.00	Doran	\$\$\$\$\$\$\$\$7500.00	Perkins	\$\$\$\$\$\$\$\$2500.00
Vollman	\$\$\$\$\$\$\$6500.00	Sewall	\$\$\$\$\$\$\$7000.00	Bell	\$\$\$\$\$\$\$\$4000.00
Mourgos	\$\$\$\$\$\$\$\$5800.00	Vishney	\$\$\$\$\$\$\$10500.00	Everett	\$\$\$\$\$\$\$\$3900.00
Nayer	\$\$\$\$\$\$\$\$3200.00	Greene	\$\$\$\$\$\$\$\$9500.00	McCain	\$\$\$\$\$\$\$\$3200.00
Mikkilineni	\$\$\$\$\$\$\$\$2700.00	Marvins	\$\$\$\$\$\$\$\$7200.00	Jones	\$\$\$\$\$\$\$\$2800.00
Landry	\$\$\$\$\$\$\$\$2400.00	Lee	\$\$\$\$\$\$\$\$6800.00	Walsh	\$\$\$\$\$\$\$\$3100.00
Markle	\$\$\$\$\$\$\$\$2200.00	Ande	\$\$\$\$\$\$\$\$6400.00	Feeney	\$\$\$\$\$\$\$\$3000.00
Bissot	\$\$\$\$\$\$\$\$3300.00	Banda	\$\$\$\$\$\$\$6200.00	OConnell	\$\$\$\$\$\$\$\$2600.00
Atkinson	\$\$\$\$\$\$\$\$2800.00	Ozer	\$\$\$\$\$\$\$11500.00	Grant	\$\$\$\$\$\$\$\$2600.00
Marlow	\$\$\$\$\$\$\$\$2500.00	Bloom	\$\$\$\$\$\$\$10000.00	Whalen	\$\$\$\$\$\$\$\$4400.00
Olson	\$\$\$\$\$\$\$\$2100.00	Fox	\$\$\$\$\$\$\$\$9600.00	Hartstein	\$\$\$\$\$\$\$13000.00
Mallin	\$\$\$\$\$\$\$\$3300.00	Smith	\$\$\$\$\$\$\$\$7400.00	Fay	\$\$\$\$\$\$\$\$6000.00
Rogers	\$\$\$\$\$\$\$\$2900.00	Bates	\$\$\$\$\$\$\$\$7300.00	Mavris	\$\$\$\$\$\$\$6500.00
Gee	\$\$\$\$\$\$\$\$2400.00	Kumar	\$\$\$\$\$\$\$6100.00	Baer	\$\$\$\$\$\$\$10000.00
Philtanker	\$\$\$\$\$\$\$\$2200.00	Abel	\$\$\$\$\$\$\$11000.00	Higgins	\$\$\$\$\$\$\$12000.00
Ladwig	\$\$\$\$\$\$\$\$3600.00	Hutton	\$\$\$\$\$\$\$\$800.00	Gietz	\$\$\$\$\$\$\$\$8300.00

33. Display the employee's name if it is a palindrome

select first_name
from employees
where lower(first_name) = reverse(lower(first_name));



34. Display First names of all employees with initcaps.

select concat(upper(left(first_name, 1)), lower(substring(first_name, 2))) as formatted_first_name from employees;

formatted_first_name	formatted_first_name	
Steven	Stephen	
Neena	John	
Lex	Joshua	
Alexander	Trenna	
Bruce	Curtis	
David	Randall	
Valli	Peter	
Diana	John	Jonathon
Nancy	Karen	Jack
Daniel	Alberto	Kimberely
John	Gerald	Charles
Ismael	Eleni	Winston
Jose manuel	Peter	Jean
Luis	David	Martha
Den	Peter	Girard
Alexander	Christopher	Nandita
Shelli	Nanette	Alexis
Sigal	Oliver	Julia
Guy	Janette	Anthony
Karen	Patrick	Kelly
Matthew	Allan	Jennifer
Adam	Lindsey	Timothy
Payam	Louise	Randall
Shanta	Sarath	Sarah
Kevin	Clara	Britney
Julia	Danielle	Samuel
Irene	Mattea	Vance
James	David	Alana
Steven	Sundar	Kevin
Laura	Amit	Donald
Mozhe	Lisa	Douglas
James	Harrison	Jennifer
Tj		
Jason	Tayler	Michael
Michael	Tayler William	Michael Pat
I IICI ICICI		
Ki	William	Pat
	William Elizabeth	Pat Susan

35. From the LOCATIONS table, extract the word between first and second space from the STREET ADDRESS column.

select substring_index(substring_index(street_address, '', 2), '', -1) as extracted_word from locations;

extracted_word
Via
Calle
Shinjuku-ku
Kamiya-cho
Jabberwocky
Interiors
Zagora
Charade
Spadina
Boxwood
Laogianggen
Vileparle
Victoria
Clementi
Arthur
Centre,
Chester
7031
Frei
Rue
921
Breughelstraat
Escobedo

36. Extract first letter from First Name column and append it with the Last Name. Also add "@systechusa.com" at the end. Name the column as e-mail address. All characters should be in lower case. Display this along with their First Name.

select first_name, lower(concat(left(first_name, 1), last_name, '@systechusa.com')) as email_address from employees;

Neena nkochhar@systechusa.com Lex Ide haan@systechusa.com Joshua jpatel@systechusa.com Alexander ahunold@systechusa.com Bruce bernst@systechusa.com David daustin@systechusa.com Curtis cdavies@systechusa.com David daustin@systechusa.com David vpataballa@systechusa.com Diana dlorentz@systechusa.com Diana dlorentz@systechusa.com Daniel dfaviet@systechusa.com Daniel dfaviet@systechusa.com Daniel dfaviet@systechusa.com Diana liciarra@systechusa.com Daniel jurman@systechusa.com Daniel jurman@systechusa.com Diana liciarra@systechusa.com Daniel jurman@systechusa.com David dbernstein@systechusa.com David dbernstein@systechusa.com Peter ptucker@systechusa.com David dbernstein@systechusa.com Peter ptucker@systechusa.com Peter ptucker@systechusa.com David dbernstein@systechusa.com Peter ptucker@systechusa.com David dbernstein@systechusa.com Peter ptucker@systechusa.com David dbernstein@systechusa.com Peter ptucker@systechusa.com David dbernstein@systechusa.com Danielle gsystechusa.com Danielle jesystechusa.com Nanette ncambrault@systechusa.com Danielte jing@systechusa.com Danielle dgreene@systechusa.com Danielle dgree	first_name	email_address	first_name	email_address
Lex Ide haan@systechusa.com Alexander ahunold@systechusa.com Bruce bernst@systechusa.com Curtis cdavies@systechusa.com Davie Gradd Graddillegsystechusa.com Curtis cdavies@systechusa.com	Steven	sking@systechusa.com	Stephen	sstiles@systechusa.com
Alexander ahunold@systechusa.com Bruce bernst@systechusa.com Curtis cdavies@systechusa.com David daustin@systechusa.com Peter pvargas@systechusa.com Diana dlorentz@systechusa.com Diana dlorentz@systechusa.com Daniel dfaviet@systechusa.com John jchen@systechusa.com Jose Manuel Jurman@systechusa.com Jose Manuel Jurman@systechusa.com Den draphaely@systechusa.com Den draphaely@systechusa.c	Neena	nkochhar@systechusa.com	John	jseo@systechusa.com
Bruce bernst@systechusa.com David daustin@systechusa.com Peter pvargas@systechusa.com Peter pvargas@systechusa.com Paniel dfaviet@systechusa.com Daniel dfaviet@systechusa.com David dbernstein@systechusa.com David dbernstein@systechusa.com Peter phall@systechusa.com David dbernstein@systechusa.com Peter phall@systechusa.com Christopher colsen@systechusa.com Nanette ncambrault@systechusa.com Nanette ncambrault@systechusa.com Danielte jking@systechusa.com Danielte jking@systechusa.com Danielte jking@systechusa.com Allan amcewen@systechusa.com Allan amcewen@systechusa.com Danielle plora@systechusa.com Danielle dgreen@systechusa.com Daniel	Lex	lde haan@systechusa.com	Joshua	jpatel@systechusa.com
David daustin@systechusa.com Valli vpataballa@systechusa.com Diana dlorentz@systechusa.com Diana dlorentz@systechusa.com Diana dlorentz@systechusa.com Nancy ngreenberg@systechusa.com Dianiel dfaviet@systechusa.com Dianiell@systechusa.com Di	Alexander	ahunold@systechusa.com	Trenna	trajs@systechusa.com
Valli vpataballa@systechusa.com Diana dlorentz@systechusa.com Diana dlorentz@systechusa.com Nancy ngreenberg@systechusa.com Daniel dfaviet@systechusa.com Diana dlorentz@systechusa.com Daniel dfaviet@systechusa.com Diana dloreng@systechusa.com Daniel dfaviet@systechusa.com Diana dloreng@systechusa.com Diana dlorentz@systechusa.com Daniel dfaviet@systechusa.com Diana dloreng@systechusa.com Diana diana dloreng@systechusa.com Diana diana dloreng@systechusa.com Diana dloreng@syste	Bruce	bernst@systechusa.com	Curtis	cdavies@systechusa.com
Diana dlorentz@systechusa.com Nancy ngreenberg@systechusa.com Daniel dfaviet@systechusa.com Daniel dfaviet@systechusa.com Daniel dfaviet@systechusa.com Doen draphaely@systechusa.com Den draphaely@systechusa.com Dismader akhoo@systechusa.com Doen draphaely@systechusa.com Daente jking@systechusa.com Doen draphaely@systechusa.com Doen dr	David	daustin@systechusa.com	Randall	rmatos@systechusa.com
Nancy ngreenberg@systechusa.com	Valli	vpataballa@systechusa.com	Peter	pvargas@systechusa.com
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Hermann	hbaer@systechusa.com
Shelley	shiggins@systechusa.com
William	wgietz@systechusa.com

37. Display the names and job titles of all employees with the same job as Trenna.

select first_name, last_name, job_title
from employees
where job_title = (select job_title from employees where first_name = 'Trenna');

first_name	last_name	job_id
Julia	Nayer	ST_CLERK
Irene	Mikkilineni	ST_CLERK
James	Landry	ST_CLERK
Steven	Markle	ST_CLERK
Laura	Bissot	ST_CLERK
Mozhe	Atkinson	ST_CLERK
James	Marlow	ST_CLERK
TJ	Olson	ST_CLERK
Jason	Mallin	ST_CLERK
Michael	Rogers	ST_CLERK
Ki	Gee	ST_CLERK
Hazel	Philtanker	ST_CLERK
Renske	Ladwig	ST_CLERK
Stephen	Stiles	ST_CLERK
John	Seo	ST_CLERK
Joshua	Patel	ST_CLERK
Trenna	Rajs	ST_CLERK
Curtis	Davies	ST_CLERK
Randall	Matos	ST_CLERK
Peter	Vargas	ST_CLERK

38. Display the names and department name of all employees working in the same city as Trenna.

first_name	last_name	department_name		
Matthew	Weiss	Shipping		
Adam	Fripp	Shipping		
Payam	Kaufling	Shipping		
Shanta	Vollman	Shipping		
Kevin	Mourgos	Shipping		
Julia	Nayer	Shipping		
Irene	Mikkilineni	Shipping		
James	Landry	Shipping		
Steven	Markle	Shipping		
Laura	Bissot	Shipping		
Mozhe	Atkinson	Shipping		
James	Marlow	Shipping		
TJ	Olson	Shipping		
Jason	Mallin	Shipping		
Michael	Rogers	Shipping		
Кі	Gee	Shipping		
Hazel	Philtanker	Shipping		
Renske	Ladwig	Shipping		
Stephen	Stiles	Shipping		
John	Seo	Shipping		
Joshua	Patel	Shipping		
Trenna	Rajs	Shipping		
Curtis	Davies	Shipping		
Randall	Matos	Shipping		
Peter	Vargas	Shipping		
Winston	Taylor	Shipping		
Jean	Fleaur	Shipping		
Martha	Sullivan	Shipping		
Girard	Geoni	Shipping		
Nandita	Sarchand	Shipping		
Alexis	Bull	Shipping		
Julia	Dellinger	Shipping	Britney	Britney Everett
Anthony	Cabrio	Shipping	Samuel	Samuel McCain
Kelly	Chung	Shipping	Vance	Vance Jones
Jennifer	Dilly	Shipping	Alana	Alana Walsh
Timothy	Gates	Shipping	Kevin	Kevin Feeney
Randall	Perkins	Shipping	Donald	Donald OConnell
Sarah	Bell	Shipping	Douglas	Douglas Grant
oai ai i	DCII	oripping	-	-

39. Display the name of the employee whose salary is the lowest.

select first_name, last_name, salary
from employees
where salary = (select min(salary) from employees);

first_name	last_name	salary	
TJ	Olson	2100.00	

40. Display the names of all employees except the lowest paid.

select first_name, last_name, salary
from employees
where salary > (select min(salary) from employees);

first_name	last_name	salary	first_name	last name	salary			
Steven	King	24000.00	John	Seo	2700.00			
Veena	Kochhar	17000.00	Joshua	Patel	2500.00			
.ex	De Haan	17000.00	Trenna	Rajs	3500.00			
Alexander	Hunold	9000.00	Curtis	Davies	3100.00			
Bruce	Ernst	6000.00	Randall	Matos	2600.00			
David	Austin	4800.00	Peter	Vargas	2500.00			
Valli	Pataballa	4800.00	John	Russell	14000.00			
Diana	Lorentz	4200.00	Karen	Partners	13500.00	Jack	Livingston	8400.00
Vancy	Greenberg	12000.00	Alberto	Errazuriz	12000.00	Kimberely	Grant	7000.00
Daniel	Faviet	9000.00	Gerald	Cambrault	11000.00	Charles	Johnson	6200.00
John	Chen	8200.00	Eleni	Zlotkey	10500.00	Winston	Taylor	3200.0
[smael	Sciarra	7700.00	Peter	Tucker	10000.00	Jean	Fleaur	3100.0
Jose Manuel	Urman	7800.00	David	Bernstein	9500.00	Martha	Sullivan	2500.0
Luis	Popp	6900.00	Peter	Hall	9000.00	Girard	Geoni	2800.0
Den	Raphaely	11000.00	Christopher	Olsen	8000.00	Nandita	Sarchand	4200.0
Alexander	Khoo	3100.00	Nanette	Cambrault	7500.00	Alexis	Bull	4100.0
Shelli	Baida	2900.00	Oliver	Tuvault	7000.00	Julia	Dellinger	3400.0
Sigal	Tobias	2800.00	Janette	King	10000.00	Anthony	Cabrio	3000.0
Guy	Himuro	2600.00	Patrick	Sully	9500.00	Kelly	Chung	3800.0
Karen	Colmenares	2500.00	Allan	McEwen	9000.00	Jennifer	Dilly	3600.0
Matthew	Weiss	8000.00	Lindsey	Smith	8000.00	Timothy	Gates	2900.0
Adam	Fripp	8200.00	Louise	Doran	7500.00	Randall	Perkins	2500.0
Payam	Kaufling	7900.00	Sarath	Sewall	7000.00	Sarah	Bell	4000.0
Shanta	Vollman	6500.00	Clara	Vishney	10500.00	Britney	Everett	3900.0
Kevin	Mourgos	5800.00	Danielle	Greene	9500.00	Samuel	McCain	3200.0
Julia	Nayer	3200.00	Mattea	Marvins	7200.00	Vance	Jones	2800.0
[rene	Mikkilineni	2700.00	David	Lee	6800.00	Alana	Walsh	3100.0
lames	Landry	2400.00	Sundar	Ande	6400.00			
Steven	Markle	2200.00	Amit	Banda	6200.00	Kevin	Feeney	3000.0
.aura	Bissot	3300.00	Lisa	Ozer	11500.00	Donald	OConnell	2600.0
Mozhe	Atkinson	2800.00	Harrison	Bloom	10000.00	Douglas	Grant	2600.0
James	Marlow	2500.00	Tayler	Fox	9600.00	Jennifer	Whalen	4400.0
lason	Mallin	3300.00	William	Smith	7400.00	Michael	Hartstein	13000.0
Michael	Rogers	2900.00	Elizabeth	Bates	7300.00	Pat	Fay	6000.0
G	Gee	2400.00	Sundita	Kumar	6100.00	Susan	Mavris	6500.0
Hazel	Philtanker	2200.00	Ellen	Abel	11000.00	Hermann	Baer	10000.0
Renske	Ladwig	3600.00	Alyssa	Hutton	8800.00	Shelley	Higgins	12000.0
Stephen	Stiles	3200.00	Jonathon	Taylor	8600.00	William	Gietz	8300.00

41. Write a query to display the last name, department number, department name for all employees.

select e.last_name, e.department_id, d.department_name from employees e join departments d on e.department_id = d.department_id;

last_name	department_id	department_name	last_name	department_id	department_name
Whalen	10	Administration	Geoni	50	Shipping
Hartstein	20	Marketing	Sarchand	50	Shipping
Fay	20	Marketing	Bull	50	Shipping
Raphaely	30	Purchasing	Dellinger	50	Shipping
Khoo	30	Purchasing	Cabrio	50	Shipping
Baida	30	Purchasing	Chung	50	Shipping
Tobias	30	Purchasing	Dilly	50	Shipping
Himuro	30	Purchasing	Gates	50	Shipping
Colmenares	30	Purchasing	Perkins	50	Shipping
Mavris	40	Human Resources	Bell	50	Shipping
Weiss	50	Shipping	Everett	50	Shipping
Fripp	50	Shipping	McCain	50	Shipping
Kaufling	50	Shipping	Jones	50	Shipping
Vollman	50	Shipping	Walsh	50	Shipping
Mourgos	50	Shipping	Feeney	50	Shipping
Nayer	50	Shipping	OConnell	50	Shipping
Mikkilineni	50	Shipping	Grant	50	Shipping
Landry	50	Shipping	Hunold	60	IT
Markle	50	Shipping	Ernst	60	IT
Bissot	50	Shipping	Austin	60	IT
Atkinson	50	Shipping	Pataballa	60	IT
Marlow	50	Shipping	Lorentz	60	IT
Olson	50	Shipping	Baer	70	Public Relations
Mallin	50	Shipping	Russell	80	Sales
Rogers	50	Shipping	Partners	80	Sales
Gee	50	Shipping	Errazuriz	80	Sales
Philtanker	50	Shipping	Cambrault	80	Sales
Ladwig	50	Shipping	Zlotkey	80	Sales
Stiles	50	Shipping	Tucker	80	Sales
Seo	50	Shipping	Bernstein	80	Sales
Patel	50	Shipping	Hall	80	Sales
Rajs	50	Shipping	Olsen	80	Sales
Davies	50	Shipping	Cambrault	80	Sales
Matos	50	Shipping	Tuvault	80	Sales
Vargas	50	Shipping	King	80	Sales
Taylor	50	Shipping	Sully	80	Sales
Fleaur	50	Shipping	McEwen	80	Sales
Sullivan	50	Shipping	Smith	80	Sales

Doran	80	Sales
Sewall	80	Sales
Vishney	80	Sales
Greene	80	Sales
Marvins	80	Sales
Lee	80	Sales
Ande	80	Sales
Banda	80	Sales
Ozer	80	Sales
Bloom	80	Sales
Fox	80	Sales
Smith	80	Sales
Bates	80	Sales
Kumar	80	Sales
Abel	80	Sales
Hutton	80	Sales
Taylor	80	Sales
Livingston	80	Sales
Johnson	80	Sales
King	90	Executive
Kochhar	90	Executive
De Haan	90	Executive
Greenberg	100	Finance
Faviet	100	Finance
Chen	100	Finance
Sciarra	100	Finance
Urman	100	Finance
Popp	100	Finance
Higgins	110	Accounting
Gietz	110	Accounting

42. Create a unique list of all jobs that are in department 4. Include the location of the department in the output.

select distinct e.job_title, l.city as location from employees e join departments d on e.department_id = d.department_id join locations l on d.location_id = l.location_id where e.department_id = 4;



43. Write a query to display the employee last name, department name, location id and city of all employees who earn commission.

select e.last_name, d.department_name, d.location_id, l.city from employees e join departments d on e.department_id = d.department_id join locations l on d.location_id = l.location_id where e.commission_pct is not null;

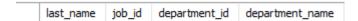
last_name	department_name	location_id	city
Russell	Sales	2500	Oxford
Partners	Sales	2500	Oxford
Errazuriz	Sales	2500	Oxford
Cambrault	Sales	2500	Oxford
Zlotkey	Sales	2500	Oxford
Tucker	Sales	2500	Oxford
Bernstein	Sales	2500	Oxford
Hall	Sales	2500	Oxford
Olsen	Sales	2500	Oxford
Cambrault	Sales	2500	Oxford
Tuvault	Sales	2500	Oxford
King	Sales	2500	Oxford
Sully	Sales	2500	Oxford
McEwen	Sales	2500	Oxford
Smith	Sales	2500	Oxford
Doran	Sales	2500	Oxford
Sewall	Sales	2500	Oxford
Vishney	Sales	2500	Oxford
Greene	Sales	2500	Oxford
Marvins	Sales	2500	Oxford
Lee	Sales	2500	Oxford
Ande	Sales	2500	Oxford
Banda	Sales	2500	Oxford
Ozer	Sales	2500	Oxford
Bloom	Sales	2500	Oxford
Fox	Sales	2500	Oxford
Smith	Sales	2500	Oxford
Bates	Sales	2500	Oxford
Kumar	Sales	2500	Oxford
Abel	Sales	2500	Oxford
Hutton	Sales	2500	Oxford
Taylor	Sales	2500	Oxford
Livingston	Sales	2500	Oxford
Johnson	Sales	2500	Oxford

44. Display the employee last name and department name of all employees who have an 'a' in their last name

		4
last_name	department_name	
Kochhar	Executive	
De Haan	Executive	
Austin	Π	
Pataballa	Π	
Faviet	Finance	
Sciarra	Finance	
Urman	Finance	
Raphaely	Purchasing	
Baida	Purchasing	
Tobias	Purchasing	
Colmenares	Purchasing	
Kaufling	Shipping	
Vollman	Shipping	
Nayer	Shipping	
Landry	Shipping	
Markle	Shipping	
Atkinson	Shipping	
Marlow	Shipping	
Mallin	Shipping	
Philtanker	Shipping	
Ladwig	Shipping	
Patel	Shipping	Kumar
Rajs	Shipping	Abel
Davies	Shipping	Taylor
Matos	Shipping	Taylor
Vargas	Shipping	Fleaur
Partners	Sales	Sullivan
Errazuriz	Sales	Sarchand
Cambrault	Sales	Cabrio
Hall	Sales	Gates
Cambrault	Sales	McCain
Tuvault	Sales	Walsh
Doran	Sales	Grant
Sewall	Sales	Whalen
Marvins	Sales	Hartstein
Ande	Sales	Fay
Banda	Sales	Mavris
Bates	Sales	Baer
Duttes	Cuico	7.

45. Write a query to display the last name,job,department number and department name for all employees who work in ATLANTA.

select e.last_name, e.job_title, e.department_id, d.department_name from employees e join departments d on e.department_id = d.department_id join locations l on d.location_id = l.location_id where l.city = 'Atlanta';



46. Display the employee last name and employee number along with their manager's last name and manager number.

employee_last_name	employee_number	manager_last_name	manager_number
King	100	NULL	NULL
Kochhar	101	King	100
De Haan	102	King	100
Hunold	103	De Haan	102
Ernst	104	Hunold	103
Austin	105	Hunold	103
Pataballa	106	Hunold	103
Lorentz	107	Hunold	103
Greenberg	108	Kochhar	101
Faviet	109	Greenberg	108
Chen	110	Greenberg	108
Sciarra	111	Greenberg	108
Urman	112	Greenberg	108
Рорр	113	Greenberg	108
Raphaely	114	King	100
Khoo	115	Raphaely	114
Baida	116	Raphaely	114
Tobias	117	Raphaely	114
Himuro	118	Raphaely	114
Colmenares	119	Raphaely	114
Weiss	120	King	100
Fripp	121	King	100
Kaufling	122	King	100
Vollman	123	King	100
Mourgos	124	King	100
Nayer	125	Weiss	120
Mikkilineni	126	Weiss	120
Landry	127	Weiss	120
Markle	128	Weiss	120
Bissot	129	Fripp	121
Atkinson	130	Fripp	121
Marlow	131	Fripp	121
Olson	132	Fripp	121
Mallin	133	Kaufling	122
Rogers	134	Kaufling	122

employee_last_name	employee_number	manager_last_name	manager_number
Gee	135	Kaufling	122
Philtanker	136	Kaufling	122
Ladwig	137	Vollman	123
Stiles	138	Vollman	123
Seo	139	Vollman	123
Patel	140	Vollman	123
Rajs	141	Mourgos	124
Davies	142	Mourgos	124
Matos	143	Mourgos	124
Vargas	144	Mourgos	124
Russell	145	King	100
Partners	146	King	100
Errazuriz	147	King	100
Cambrault	148	King	100
Zlotkey	149	King	100
Tucker	150	Russell	145
Bernstein	151	Russell	145
Hall	152	Russell	145
Olsen	153	Russell	145
Cambrault	154	Russell	145
Tuvault	155	Russell	145
King	156	Partners	146
Sully	157	Partners	146
McEwen	158	Partners	146
Smith	159	Partners	146
Doran	160	Partners	146
Sewall	161	Partners	146
Vishney	162	Errazuriz	147
Greene	163	Errazuriz	147
Marvins	164	Errazuriz	147
Lee	165	Errazuriz	147
Ande	166	Errazuriz	147
Banda	167	Errazuriz	147
Ozer	168	Cambrault	148
Bloom	169	Cambrault	148

employee_last_nam	e employee_number	manager_last_name	manager_numbe	
Fox	170	Cambrault	148	
Smith	171	Cambrault	148	
Bates	172	Cambrault	148	
Kumar	173	Cambrault	148	
Abel	174	Zlotkey	149	
Hutton	175	Zlotkey	149	
Taylor	176	Zlotkey	149	
Livingston Ta	ylor 77	Zlotkey	149	
Grant	178	Zlotkey	149	
Johnson	179	Zlotkey	149	
Taylor	180	Weiss	120	
Fleaur	181	Weiss	120	
Sullivan	182	Weiss	120	
Geoni	183	Weiss	120	
Sarchand	184	Fripp	121	
Bull	185	Fripp	121	
Dellinger	186	Fripp	121	
Cabrio	187	Fripp	121	
Chung	188	Kaufling	122	
Dilly	189	Kaufling	122	
Gates	190	Kaufling	122	
Perkins	191	Kaufling	122	
Bell	192	Vollman	123	
Everett	193	Vollman	123	
McCain	194	Vollman	123	
Jones	195	Vollman	123	
Walsh	196	Mourgos	124	
Feeney	197	Mourgos	124	
OConnell	198	Mourgos	124	
Grant	199	Mourgos	124	
Whalen	200	Kochhar	101	
Hartstein	201	King	100	
Fay	202	Hartstein	201	
Mavris	203	Kochhar	101	
Baer	204	Kochhar	101	

47. Display the employee last name and employee number along with their manager's last name and manager number (including the employees who have no manager).

employee_last_name	employee_number	manager_last_name	manager_number
King	100	NULL	NULL
Kochhar	101	King	100
De Haan	102	King	100
Hunold	103	De Haan	102
Ernst	104	Hunold	103
Austin	105	Hunold	103
Pataballa	106	Hunold	103
Lorentz	107	Hunold	103
Greenberg	108	Kochhar	101
Faviet	109	Greenberg	108
Chen	110	Greenberg	108
Sciarra	111	Greenberg	108
Urman	112	Greenberg	108
Popp	113	Greenberg	108
Raphaely	114	King	100
Khoo	115	Raphaely	114
Baida	116	Raphaely	114
Tobias	117	Raphaely	114
Himuro	118	Raphaely	114
Colmenares	119	Raphaely	114
Weiss	120	King	100
Fripp	121	King	100
Kaufling	122	King	100
Vollman	123	King	100
Mourgos	124	King	100
Nayer	125	Weiss	120
Mikkilineni	126	Weiss	120
Landry	127	Weiss	120
Markle	128	Weiss	120
Bissot	129	Fripp	121
Atkinson	130	Fripp	121
Marlow	131	Fripp	121
Olson	132	Fripp	121
Mallin	133	Kaufling	122
Rogers	134	Kaufling	122
Gee	135	Kaufling	122
Philtanker	136	Kaufling	122
Ladwig	137	Vollman	123

employee_last_name	employee_number	manager_last_name	manager_number
Stiles	138	Vollman	123
Seo	139	Vollman	123
Patel	140	140 Vollman	
Rajs	141	Mourgos	124
Davies	142	Mourgos	124
Matos	143	Mourgos	124
Vargas	144	Mourgos	124
Russell	145	King	100
Partners	146	King	100
Errazuriz	147	King	100
Cambrault	148	King	100
Zlotkey	149	King	100
Tucker	150	Russell	145
Bernstein	151	Russell	145
Hall	152	Russell	145
Olsen	153	Russell	145
Cambrault	154	Russell	145
Tuvault	155	Russell	145
King	156	Partners	146
Sully	157	Partners	146
McEwen	158	Partners	146
Smith	159	Partners	146
Doran	160	Partners	146
Sewall	161	Partners	146
Vishney	162	Errazuriz	147
Greene	163	Errazuriz	147
Marvins	164	Errazuriz	147
Lee	165	Errazuriz	147
Ande	166	Errazuriz	147
Banda	167	Errazuriz	147
Ozer	168	Cambrault	148
Bloom	169	Cambrault	148
Fox	170	Cambrault	148
Smith	171	Cambrault	148
Bates	172	Cambrault	148
Kumar	173	Cambrault	148
Abel	174	Zlotkey	149
Hutton	175	Zlotkey	149

48. Create a query that displays employees last name, department number, and all the employees who work in the same department as a given employee.



49. Create a query that displays the name, job, department name, salary, grade for all employees. Derive grade based on salary(>=50000=A, >=30000=B, <30000=C)

employee_name	job_id	department_name	salary	grade
0	AD_ASST	Administration	4400.00	C
0	MK_MAN	Marketing	13000.00	С
0	MK_REP	Marketing	6000.00	C
0	PU_MAN	Purchasing	11000.00	C
0	PU_CLERK	Purchasing	3100.00	C
0	PU_CLERK	Purchasing	2900.00	С
0	PU_CLERK	Purchasing	2800.00	C
0	PU_CLERK	Purchasing	2600.00	С
0	PU_CLERK	Purchasing	2500.00	C
0	HR_REP	Human Resources	6500.00	С
0	ST_MAN	Shipping	8000.00	C
0	ST_MAN	Shipping	8200.00	С
0	ST_MAN	Shipping	7900.00	C
0	ST_MAN	Shipping	6500.00	С
0	ST_MAN	Shipping	5800.00	C
0	ST_CLERK	Shipping	3200.00	С
0	ST_CLERK	Shipping	2700.00	C
0	ST_CLERK	Shipping	2400.00	С
0	ST_CLERK	Shipping	2200.00	С
0	ST_CLERK	Shipping	3300.00	С
0	ST_CLERK	Shipping	2800.00	С
0	ST_CLERK	Shipping	2500.00	С
0	ST_CLERK	Shipping	2100.00	С
0	ST_CLERK	Shipping	3300.00	С
0	ST_CLERK	Shipping	2900.00	С
0	ST_CLERK	Shipping	2400.00	С
0	ST_CLERK	Shipping	2200.00	С
0	ST_CLERK	Shipping	3600.00	С
0	ST_CLERK	Shipping	3200.00	С
0	ST_CLERK	Shipping	2700.00	С
0	ST_CLERK	Shipping	2500.00	С
0	ST_CLERK	Shipping	3500.00	С
0	ST_CLERK	Shipping	3100.00	С
0	ST_CLERK	Shipping	2600.00	С
0	ST_CLERK	Shipping	2500.00	С
0	SH_CLERK	Shipping	3200.00	С
0	SH_CLERK	Shipping	3100.00	С
0	SH CLERK	Shipping	2500.00	С

employee_name	job_id	department_name	salary	grade
0	SH_CLERK	Shipping	2800.00	С
0	SH_CLERK	Shipping	4200.00	С
0	SH_CLERK	Shipping	4100.00	С
0	SH_CLERK	Shipping	3400.00	С
0	SH_CLERK	Shipping	3000.00	С
0	SH_CLERK	Shipping	3800.00	С
0	SH_CLERK	Shipping	3600.00	С
0	SH_CLERK	Shipping	2900.00	С
0	SH_CLERK	Shipping	2500.00	С
0	SH_CLERK	Shipping	4000.00	С
0	SH_CLERK	Shipping	3900.00	С
0	SH_CLERK	Shipping	3200.00	С
0	SH_CLERK	Shipping	2800.00	С
0	SH_CLERK	Shipping	3100.00	С
0	SH_CLERK	Shipping	3000.00	С
0	SH_CLERK	Shipping	2600.00	С
0	SH_CLERK	Shipping	2600.00	С
0	IT_PROG	IT	9000.00	С
0	IT_PROG	IT	6000.00	С
0	IT_PROG	IT	4800.00	С
0	IT_PROG	Π	4800.00	С
0	IT_PROG	IT	4200.00	С
0	PR_REP	Public Relations	10000.00	С
0	SA_MAN	Sales	14000.00	С
0	SA_MAN	Sales	13500.00	С
0	SA_MAN	Sales	12000.00	С
0	SA_MAN	Sales	11000.00	С
0	SA_MAN	Sales	10500.00	С
0	SA_REP	Sales	10000.00	С
0	SA_REP	Sales	9500.00	С
0	SA_REP	Sales	9000.00	С
0	SA_REP	Sales	8000.00	С
0	SA_REP	Sales	7500.00	С
0	SA_REP	Sales	7000.00	С
0	SA_REP	Sales	10000.00	С
0	SA_REP	Sales	9500.00	С
0	SA_REP	Sales	9000.00	С
0	SA_REP	Sales	8000.00	С

0	SA_REP	Sales	7500.00	С
0	SA_REP	Sales	7000.00	С
0	SA_REP	Sales	10500.00	С
0	SA_REP	Sales	9500.00	С
0	SA_REP	Sales	7200.00	С
0	SA_REP	Sales	6800.00	С
0	SA_REP	Sales	6400.00	С
0	SA_REP	Sales	6200.00	С
0	SA_REP	Sales	11500.00	С
0	SA_REP	Sales	10000.00	С
0	SA_REP	Sales	9600.00	С
0	SA_REP	Sales	7400.00	С
0	SA_REP	Sales	7300.00	С
0	SA_REP	Sales	6100.00	С
0	SA_REP	Sales	11000.00	С
0	SA_REP	Sales	8800.00	С
0	SA_REP	Sales	8600.00	С
0	SA_REP	Sales	8400.00	С
0	SA_REP	Sales	6200.00	С
0	AD_PRES	Executive	24000.00	С
0	AD_VP	Executive	17000.00	С
0	AD_VP	Executive	17000.00	С
0	FI_MGR	Finance	12000.00	С
0	FI_ACCO	Finance	9000.00	С
0	FI_ACCO	Finance	8200.00	С
0	FI_ACCO	Finance	7700.00	С
0	FI_ACCO	Finance	7800.00	С
0	FI_ACCO	Finance	6900.00	C
0	AC_MGR	Accounting	12000.00	С
0	AC_ACC	Accounting	8300.00	С

50. Display the names and hire date for all employees who were hired before their managers along withe their manager names and hire date. Label the columns as Employee name, emp_hire_date,manager name,man_hire_date Database Name: AdventureWorks

SELECT

e.first_name || ' ' || e.last_name AS employee_name, e.hire_date AS emp_hire_date, m.first_name || ' ' || m.last_name AS manager_name, m.hire_date AS man_hire_date FROM employees e JOIN employees m ON e.manager_id = m.employee_id WHERE e.hire_date < m.hire_date;

employee_name	emp_hire_date	manager_name	man_hire_date
0	1990-01-03	0	1993-01-13
0	1994-08-16	0	1994-08-17
0	1997-02-16	0	1997-04-10
0	1995-07-14	0	1997-10-10
0	1995-10-17	0	1999-11-16
0	1997-01-29	0	1999-11-16
0	1998-03-15	0	1999-11-16
0	1998-07-09	0	1999-11-16
0	1996-01-30	0	1997-01-05
0	1996-03-04	0	1997-01-05
0	1996-08-01	0	1997-01-05
0	1997-03-11	0	1999-10-15
0	1998-03-23	0	1999-10-15
0	1998-01-24	0	1999-10-15
0	1999-02-23	0	1999-10-15
0	1999-03-24	0	1999-10-15
0	1996-05-11	0	2000-01-29
0	1997-03-19	0	2000-01-29
0	1998-03-24	0	2000-01-29
0	1998-04-23	0	2000-01-29
0	1999-05-24	0	2000-01-29
0	2000-01-04	0	2000-01-29
0	1996-01-27	0	1997-04-10
0	1997-02-20	0	1997-04-10
0	1996-02-04	0	1997-10-10
0	1997-03-03	0	1997-10-10
0	1998-04-24	0	1999-11-16
0	1998-05-23	0	1999-11-16
0	1999-06-21	0	1999-11-16
0	1987-09-17	0	1989-09-21

51. Write a query to display employee numbers and employee name (first name, last name) of all the sales employees who received an amount of 2000 in bonus.

select e.emp_idno, e.emp_fname, e.emp_lname from emp e join salesman s on e.emp_idno = s.salesman_id where s.commission = 2000;



52. Fetch address details of employees belonging to the state CA. If address is null, provide default value N/A.

```
select
e.employee_id,
e.first_name || ' ' || e.last_name as employee_name,
coalesce(l.street_address, 'n/a') as street_address,
coalesce(l.city, 'n/a') as city,
coalesce(l.state_province, 'n/a') as state_province,
coalesce(l.postal_code, 'n/a') as postal_code,
coalesce(l.country_id, 'n/a') as country
from employees e
join departments d on e.department_id = d.department_id
join locations l on d.location_id = l.location_id
where l.state_province = 'CA';
```

employee_id	employee_name	street_address	city	state_province	postal_code	country

- 53. Write a query that displays all the products along with the Sales OrderID even if an order has never been placed for that product.
- 54. Find the subcategories that have at least two different prices less than \$15.
- 55. A. Write a query to display employees and their manager details. Fetch employee id, employee first name, and manager id, manager name. B. Display the employee id and employee name of employees who do not have manager.
- 56. A. Display the names of all products of a particular subcategory 15 and the names of their vendors. B. Find the products that have more than one vendor.
- 57. Find all the customers who do not belong to any store.
- 58. Find sales prices of product 718 that are less than the list price recommended for that product.
- 59. Display product number, description and sales of each product in the year 2001.
- 60. Build the logic on the above question to extract sales for each category by year. Fetch Product Name, Sales_2001, Sales_2002, Sales_2003. Hint: For questions 9 & 10 (From Sales.SalesOrderHeader, sales. SalesOrderDetail, Production. Product. Use ShipDate of SalesOrderHeader to extract shipped year. Calculate sales using QTY and unitprice from Sales OrderDetail.) Database Name: HR

61. Write a query to display the last name and hire date of any employee in the same department as SALES.

```
select e.last_name, e.hire_date
from employees e
where e.department_id = (
    select department_id
    from departments
    where department_name = 'SALES'
);
```

last_name	hire_date
Russell	1996-10-01
Partners	1997-01-05
Errazuriz	1997-03-10
Cambrault	1999-10-15
Zlotkey	2000-01-29
Tucker	1997-01-30
Bernstein	1997-03-24
Hall	1997-08-20
Olsen	1998-03-30
Cambrault	1998-12-09
Tuvault	1999-11-23
King	1996-01-30
Sully	1996-03-04
McEwen	1996-08-01
Smith	1997-03-10
Doran	1997-12-15
Sewall	1998-11-03
Vishney	1997-11-11
Greene	1999-03-19
Marvins	2000-01-24
Lee	2000-02-23
Ande	2000-03-24
Banda	2000-04-21
Ozer	1997-03-11
Bloom	1998-03-23
Fox	1998-01-24
Smith	1999-02-23
Bates	1999-03-24
Kumar	2000-04-21
Abel	1996-05-11
Hutton	1997-03-19
Taylor	1998-03-24
Livingston	1998-04-23
Johnson	2000-01-04

62. Create a query to display the employee numbers and last names of all employees who earn more than the average salary. Sort the results in ascending order of salary.

select employee_id, last_name, salary from employees where salary > (select avg(salary) from employees) order by salary asc;

employee_id	last_name	salary		
203	Mavris	6500.00		
123	Vollman	6500.00		
165	Lee	6800.00		
113	Popp	6900.00		
155	Tuvault	7000.00		
161	Sewall	7000.00		
178	Grant	7000.00		
164	Marvins	7200.00		
172	Bates	7300.00		
171	Smith	7400.00		
160	Doran	7500.00		
154	Cambrault	7500.00		
111	Sciarra	7700.00		
112	Urman	7800.00		
122	Kaufling	7900.00		
159	Smith	8000.00		
153	Olsen	8000.00		
120	Weiss	8000.00		
110	Chen	8200.00		
121	Fripp	8200.00		
206	Gietz	8300.00		
177	Livingston	8400.00		
176	Taylor	8600.00		
175	Hutton	8800.00		
103	Hunold	9000.00	114	114 Raphaely
109	Faviet	9000.00	148	148 Cambrault
158	McEwen	9000.00	174	174 Abel
152	Hall	9000.00	168	168 Ozer
157	Sully	9500.00	108	108 Greenberg
151	Bernstein	9500.00	147	147 Errazuriz
163	Greene	9500.00	205	205 Higgins
170	Fox	9600.00	201	201 Hartstein
156	King	10000.00	146	146 Partners
150	Tucker	10000.00	145	145 Russell
169	Bloom	10000.00	101	101 Kochhar
204	Baer	10000.00	102	
149	Zlotkey	10500.00	100	100 King
162	Vishney	10500.00	NULL	
102	violitie	10000100		

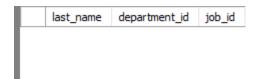
63. Write a query that displays the employee numbers and last names of all employees who work in a department with any employee whose last name contains a' u

```
select employee_id, last_name
from employees
where department_id in (
select distinct department_id
from employees
where last_name like '%u%'
);
```

employee_id	last_name				
103	Hunold				
104	Ernst	141	Rajs		
105	Austin	142	Davies		
106	Pataballa	143	Matos		
107	Lorentz	144	Vargas		
108	Greenberg	180	Taylor		
109	Faviet	181	Fleaur		
110	Chen	182	Sullivan		
111	Sciarra	183	Geoni		
112	Urman	184	Sarchand		
113	Popp	185	Bull		
114	Raphaely	186	Dellinger		
115	Khoo	187	Cabrio		
116	Baida	188	Chung		
117	Tobias	189	Dilly		
118	Himuro	190	Gates		
119	Colmenares	191	Perkins	158	McEwen
120	Weiss	192	Bell	159	Smith
121	Fripp	193	Everett	160	Doran
122	Kaufling	194	McCain	161	Sewall
123	Vollman	195	Jones	162	Vishney
124	Mourgos	196	Walsh	163	Greene
125	Nayer	197	Feeney	164	Marvins
126	Mikkilineni	198	OConnell	165	Lee
127	Landry	199	Grant	166	Ande
128	Markle	145	Russell	167	Banda
129	Bissot	146	Partners	168	Ozer
130	Atkinson	147	Errazuriz	169	Bloom
131	Marlow	148	Cambrault	170	Fox
132	Olson	149	Zlotkey	171	Smith
133	Mallin	150	Tucker	172	Bates
134	Rogers	151	Bernstein	173	Kumar
135	Gee	152	Hall	174	Abel
136	Philtanker	153	Olsen	175	Hutton
137	Ladwig	154	Cambrault	176	Taylor
138	Stiles	155	Tuvault	177	Livingst
139	Seo	156	King	179	Johnson
140	Patel	157	Sully	NULL	NULL

64. Display the last name, department number, and job ID of all employees whose department location is ATLANTA.

select e.last_name, e.department_id, e.job_id from employees e join departments d on e.department_id = d.department_id join locations l on d.location_id = l.location_id where l.city = 'ATLANTA';



65. Display the last name and salary of every employee who reports to FILLMORE.

```
select e.department_id, e.last_name, e.job_id
from employees e
join departments d
on e.department_id = d.department_id
where d.department_name = 'OPERATIONS';
```

66. Display the department number, last name, and job ID for every employee in the OPERATIONS department.

```
select department_id, last_name, job_id
from employees
where department_id in (
    select department_id
    from departments
    where department_name = 'OPERATIONS'
);
```

67. Modify the above query to display the employee numbers, last names, and salaries of all employees who earn more than the average salary and who work in a department with any employee with a 'u'in their name.

```
select employee_id, last_name, salary
from employee
where salary > (select avg(salary) from employee)
and department_id in (
    select distinct department_id
    from employee
    where first_name like '%u%' or last_name like '%u%'
);
```

Description:

- The first condition (salary > (select avg(salary) from employee)) ensures that we only get employees who earn more than the average salary.
- The **second condition** filters employees who work in a department where at least one employee has a 'u' in their first or last name. This is done using a subquery that finds all such departments.

68. Display the names of all employees whose job title is the same as anyone in the sales dept.

```
select first_name, last_name
from employee
where job_id in (
    select distinct job_id
    from employee
    where department_id = (select department_id from department where
lower(department_name) = 'sales')
);
```

- The subquery finds the department_id of the Sales department.
 Another subquery selects all job_ids assigned to employees in the Sales Department.
- 2. The **outer query** retrieves the names of employees who have any of these job titles.

69. Write a compound query to produce a list of employees showing raise percentages, employee IDs, and salaries. Employees in department 1 and 3 are given a 5% raise, employees in department 2 are given a 10% raise, employees in departments 4 and 5 are given a 15% raise, and employees in department 6 are not given a raise.

select employee_id, salary, 5 as raise_percentage from employee where department_id in (1, 3)

union all

select employee_id, salary, 10 from employee where department_id = 2

union all

select employee_id, salary, 15 from employee where department_id in (4, 5)

union all

select employee_id, salary, 0 from employee where department_id = 6;

The query categorizes employees based on their department_id and assigns the corresponding raise percentage.

- **union all** is used instead of union to **preserve duplicate salaries or IDs** (if any).
- The raise percentage is hardcoded for each department group.

70. Write a query to display the top three earners in the EMPLOYEES table. Display their last names and salaries.

71. Display the names of all employees with their salary and commission earned. Employees with a null commission should have O in the commission column

1. Top Three Earners

select last_name, salary from employee order by salary desc limit 3;

2. Employees with Salary and Commission Earned

select first_name, last_name, salary, coalesce(commission_pct, 0) as commission_earned from employee;

72. Display the Managers (name) with top three salaries along with their salaries and department information.

select e.first_name, e.last_name, e.salary, e.department_id from employee e where e.employee_id in (select distinct manager_id from employee where manager_id is not null) order by e.salary desc limit 3;

Identifies Managers:

• The where e.employee_id in (select distinct manager_id from employee where manager_id is not null) condition ensures we only consider employees who are managers.

Orders by Salary:

• order by e.salary desc sorts employees by solary in descending order.

Limits to Top 3:

• limit 3 ensures only the top three earning managers are displayed.

Date Function

1) Find the date difference between the hire date and resignation_date for all the employees. Display in no. of days, months and year(1 year 3 months 5 days). Emp_ID Hire Date Resignation_Date 1 1/1/2000 7/10/2013 2 4/12/2003 3/8/2017 3 22/9/2012 21/6/2015 4 13/4/2015 NULL 5 03/06/2016 NULL 6 08/08/2017 NULL 7 13/11/2016 NULL

	emp_id	hire_date	end_date	duration
•	1	2000-01-01	2013-10-07	13 years 9 months 6 days
	2	2003-12-04	2017-08-03	13 years 7 months 30 days
	3	2012-09-22	2015-06-21	2 years 8 months 30 days
	4	2015-04-13	2025-02-28	9 years 10 months 15 days
	5	2016-06-03	2025-02-28	8 years 8 months 25 days
	6	2017-08-08	2025-02-28	7 years 6 months 20 days
	7	2016-11-13	2025-02-28	8 years 3 months 15 days

2) Format the hire date as mm/dd/yyyy(09/22/2003) and resignation_date as mon dd, yyyy(Aug 12th, 2004). Display the null as (DEC, 01th 1900)

```
select emp_id,
date_format(hire_date, '%m/%d/%Y') as formatted_hire_date,
```

-- Formatting resignation date or replacing NULL with DEC 01th, 1900 case

```
when resignation_date is null then 'Dec 01th, 1900'
else concat(
    date_format(resignation_date, '%b '),
    day(resignation_date),
    case
    when day(resignation_date) in (1, 21, 31) then 'st'
    when day(resignation_date) in (2, 22) then 'nd'
    when day(resignation_date) in (3, 23) then 'rd'
    else 'th'
    end,
    date_format(resignation_date, ', %Y')
)
nd as formatted_resignation_date
```

end as formatted_resignation_date from employees;

	emp_id	formatted_hire_date	formatted_resignation_date
•	1	01/01/2000	Oct 7th, 2013
	2	12/04/2003	Aug 3rd, 2017
	3	09/22/2012	Jun 21st, 2015
	4	04/13/2015	Dec 01th, 1900
	5	06/03/2016	Dec 01th, 1900
	6	08/08/2017	Dec 01th, 1900
	7	11/13/2016	Dec 01th, 1900

3) Calculate experience of the employee till date in Years and months(example 1 year and 3 months) Use Getdate() as input date for the below three questions.

	emp_id	hire_date	resignation_date	years	months	experience
•	1	2000-01-01	2013-10-07	13	9	13 year(s) and 9 month(s)
	2	2003-12-04	2017-08-03	13	8	13 year(s) and 8 month(s)
	3	2012-09-22	2015-06-21	2	9	2 year(s) and 9 month(s)
	4	2015-04-13	NULL	9	10	9 year(s) and 10 month(s)
	5	2016-06-03	NULL	8	8	8 year(s) and 8 month(s)
	6	2017-08-08	NULL	7	6	7 year(s) and 6 month(s)
	7	2016-11-13	NULL	8	3	8 year(s) and 3 month(s)

4) Display the count of days in the previous quarter

```
select datediff(
```

case

when quarter(curdate()) = 1 then last_day(date_sub(curdate(), interval 1 year))

else last_day(date_sub(curdate(), interval quarter(curdate()) - 2 quarter)) end,

case

when quarter(curdate()) = 1 then date_sub(last_day(date_sub(curdate(), interval 1 year)), interval day(last_day(date_sub(curdate(), interval 1 year))) - 1 day) else date_sub(last_day(date_sub(curdate(), interval quarter(curdate()) - 2 quarter)), interval day(last_day(date_sub(curdate(), interval quarter(curdate()) - 2 quarter))) - 1 day)

end

) + 1 as days_in_previous_quarter;

Identify the Previous Quarter:

- If the current quarter is Q1, the previous quarter is Q4 of the previous year.
- Otherwise, the previous quarter is (current quarter 1) of the same year.

Get the First and Last Day of the Previous Quarter:

- last_day(date_sub(curdate(), interval quarter(curdate()) 2
 quarter()) → Gets the last day of the previous quarter.
- date_sub(last_day(...), interval day(last_day(...)) 1 day) →
 Gets the first day of the previous quarter.

Calculate the Difference:

- datediff(last_day_of_previous_quarter, first_day_of_previous_quarter) + 1 → Gives the total number of days in that quarter.
- 5) Fetch the previous Quarter's second week's first day's date

```
select date_add(
   case
     when quarter(curdate()) = 1 then date_sub(curdate(), interval 1 year)
     else date_sub(curdate(), interval quarter(curdate()) - 2 quarter)
   end,
   interval 7 day
) as second_week_first_day;
```

Find the Previous Quarter's Start Date:

- If the current quarter is Q1, the previous quarter is Q4 of the previous year.
- Otherwise, subtract (quarter 2) quarters from the current date.

Add 7 Days to Get the Second Week's First Day:

- The first week starts on the first day of the quarter.
- Adding 7 days gives the first day of the second week.

6) Fetch the financial year's 15th week's dates (Format: Mon DD YYYY)

select

date_format(date_add(str_to_date(concat(year(curdate()), '-04-01'), '%Y-%m-%d'), interval 14 week), '%b %d %Y') as start_date, date_format(date_add(str_to_date(concat(year(curdate()), '-04-01'), '%Y-%m-%d'),

interval 14 week + 6 day), '%b %d %Y') as end_date;

Assumes the financial year starts on April 1st. Finds the start date of the 15th week:

- Week 1 starts from April 1st.
- Week 15 starts after 14 full weeks → interval 14 week.

Finds the end date:

• Adds 6 days to the start date.

Formats the output as Mon DD YYYY (e.g., Apr 08 2024)

7) Find out the date that corresponds to the last Saturday of January, 2015 using with clause. Use Airport database for the below two question:

```
with january_dates as (
    select str_to_date('2015-01-31', '%Y-%m-%d') as last_day
)
select date_sub(last_day, interval weekday(last_day) + 1 day) as last_saturday
from january_dates;
```

with january_dates:

• Defines a CTE (Common Table Expression) with the last day of **January** 2015 (2015–01–31).

Calculates the last Saturday:

- weekday(last_day): Returns the index of the weekday (Monday = 0, Sunday = 6).
- interval weekday(last_day) + 1 day: Subtracts the necessary days to land on Saturday.

8) Find the number of days elapsed between first and last flights of a passenger.

select passenger_id, datediff(max(flight_date), min(flight_date)) as days_elapsed from flights group by passenger_id;

Finds the first and last flight dates of each passenger:

- min(flight_date): Gets the earliest flight date (first flight).
- max(flight_date): Gets the latest flight date (last flight).

Calculates the difference in days using datediff().

Groups by passenger_id to calculate the elapsed days for each passenger.

9) Find the total duration in minutes and in seconds of the flight from Rostov to Moscow.

select flight_id,

timediff(arrival_time, departure_time) as duration_hhmmss, timestampdiff(minute, departure_time, arrival_time) as duration_minutes, timestampdiff(second, departure_time, arrival_time) as duration_seconds from flights

where source_airport = 'Rostov' and destination_airport = 'Moscow';

Filters flights where source_airport = 'Rostov' and destination_airport = 'Moscow'.

Calculates the flight duration in different formats:

- timediff(arrival_time, departure_time): Returns HH:MM:SS format.
- timestampdiff(minute, departure_time, arrival_time): Returns total duration in minutes.
- timestampdiff(second, departure_time, arrival_time): Returns total duration in seconds.