**Practice lab 6**

**Diyan Saeed**

**L1F21BSCS0783**

create database COMPANY1;

use COMPANY1;

CREATE TABLE orders (

ORD\_NUM INT,

ORD\_AMOUNT INT,

ADVANCE\_AMOUNT INT,

ORD\_DATE DATE,

CUST\_CODE VARCHAR(6),

AGENT\_CODE VARCHAR(4),

ORD\_DESCRIPTION VARCHAR(50)

);

INSERT INTO orders VALUES

(200114, 3500, 2000, DATE '2008-08-15', 'C00002', 'A008', NULL),

(200122, 2500, 400, DATE '2008-09-16', 'C00003', 'A004', NULL),

(200118, 500, 100, DATE '2008-07-20', 'C00023', 'A006', NULL),

(200119, 4000, 700, DATE '2008-09-16', 'C00007', 'A010', NULL),

(200121, 1500, 600, DATE '2008-09-23', 'C00008', 'A004', NULL),

(200130, 2500, 400, DATE '2008-07-30', 'C00025', 'A011', NULL),

(200134, 4200, 1800, DATE '2008-09-25', 'C00004', 'A005', NULL),

(200108, 4000, 600, DATE '2008-02-15', 'C00008', 'A004', NULL),

(200103, 1500, 700, DATE '2008-05-15', 'C00021', 'A005', NULL),

(200105, 2500, 500, DATE '2008-07-18', 'C00025', 'A011', NULL),

(200109, 3500, 800, DATE '2008-07-30', 'C00011', 'A010', NULL),

(200101, 3000, 1000, DATE '2008-07-15', 'C00001', 'A008', NULL),

(200111, 1000, 300, DATE '2008-07-10', 'C00020', 'A008', NULL),

(200104, 1500, 500, DATE '2008-03-13', 'C00006', 'A004', NULL),

(200106, 2500, 700, DATE '2008-04-20', 'C00005', 'A002', NULL),

(200125, 2000, 600, DATE '2008-10-10', 'C00018', 'A005', NULL),

(200117, 800, 200, DATE '2008-10-20', 'C00014', 'A001', NULL),

(200123, 500, 100, DATE '2008-09-16', 'C00022', 'A002', NULL),

(200120, 500, 100, DATE '2008-07-20', 'C00009', 'A002', NULL),

(200116, 500, 100, DATE '2008-07-13', 'C00010', 'A009', NULL),

(200124, 500, 100, DATE '2008-06-20', 'C00017', 'A007', NULL),

(200126, 500, 100, DATE '2008-06-24', 'C00022', 'A002', NULL),

(200129, 2500, 500, DATE '2008-07-20', 'C00024', 'A006', NULL),

(200127, 2500, 400, DATE '2008-07-20', 'C00015', 'A003', NULL),

(200128, 3500, 1500, DATE '2008-07-20', 'C00009', 'A002', NULL),

(200135, 2000, 800, DATE '2008-09-16', 'C00007', 'A010', NULL),

(200131, 900, 150, DATE '2008-08-26', 'C00012', 'A012', NULL),

(200133, 1200, 400, DATE '2008-06-29', 'C00009', 'A002', NULL),

(200100, 1000, 600, DATE '2008-01-08', 'C00015', 'A003', NULL),

(200110, 3000, 500, DATE '2008-04-15', 'C00019', 'A010', NULL),

(200107, 4500, 900, DATE '2008-08-30', 'C00007', 'A010', NULL),

(200112, 2000, 400, DATE '2008-05-30', 'C00016', 'A007', NULL),

(200113, 4000, 600, DATE '2008-06-10', 'C00022', 'A002', NULL),

(200102, 2000, 300, DATE '2008-05-25', 'C00012', 'A012', NULL);

CREATE TABLE agent (

AGENT\_CODE VARCHAR(4),

AGENT\_NAME VARCHAR(50),

WORKING\_AREA VARCHAR(50),

COMMISSION DECIMAL(4, 2),

PHONE\_NO VARCHAR(15),

COUNTRY VARCHAR(50)

);

INSERT INTO agent (AGENT\_CODE, AGENT\_NAME, WORKING\_AREA, COMMISSION, PHONE\_NO, COUNTRY)

VALUES

('A007', 'Ramasundar', 'Bangalore', 0.15, '077-25814763', NULL),

('A003', 'Alex', 'London', 0.13, '075-12458969', NULL),

('A008', 'Alford', 'New York', 0.12, '044-25874365', NULL),

('A011', 'Ravi Kumar', 'Bangalore', 0.15, '077-45625874', NULL),

('A010', 'Santakumar', 'Chennai', 0.14, '007-22388644', NULL),

('A012', 'Lucida', 'San Jose', 0.12, '044-52981425', NULL),

('A005', 'Anderson', 'Brisban', 0.13, '045-21447739', NULL),

('A001', 'Subbarao', 'Bangalore', 0.14, '077-12346674', NULL),

('A002', 'Mukesh', 'Mumbai', 0.11, '029-12358964', NULL),

('A006', 'McDen', 'London', 0.15, '078-22255588', NULL),

('A004', 'Ivan', 'Torento', 0.15, '008-22544166', NULL),

('A009', 'Benjamin', 'Hampshair', 0.11, '008-22536178', NULL);

CREATE TABLE employees (

employee\_id INT,

first\_name VARCHAR(50),

last\_name VARCHAR(50),

email VARCHAR(50),

phone\_number VARCHAR(20),

hire\_date DATE,

job\_id VARCHAR(50),

salary DECIMAL(10, 2),

commission\_pct DECIMAL(4, 2),

manager\_id INT,

department\_id INT

);

INSERT INTO employees VALUES

(100, 'Steven', 'King', 'SKING', '515.123.4567', DATE '1987-06-17' , 'AD\_PRES', 24000, NULL, NULL, 90),

(101, 'Neena', 'Kochhar', 'NKOCHHAR', '515.123.4568', DATE '1987-06-18', 'AD\_VP', 17000, NULL, 100, 90),

(102, 'Lex', 'De Haan', 'LDEHAAN', '515.123.4569', DATE '1987-06-19', 'AD\_VP', 17000, NULL, 100, 90),

(103, 'Alexander', 'Hunold', 'AHUNOLD', '590.423.4567', DATE '1987-06-20', 'IT\_PROG', 9000, NULL, 102, 60),

(104, 'Bruce', 'Ernst', 'BERNST', '590.423.4568', DATE '1987-06-21', 'IT\_PROG', 6000, NULL, 103, 60),

(105, 'David', 'Austin', 'DAUSTIN', '590.423.4569', DATE '1987-06-22', 'IT\_PROG', 4800, NULL, 103, 60),

(106, 'Valli', 'Pataballa', 'VPATABAL', '590.423.4560', DATE '1987-06-23', 'IT\_PROG', 4800, NULL, 103, 60),

(107, 'Diana', 'Lorentz', 'DLORENTZ', '590.423.5567', DATE '1987-06-24', 'IT\_PROG', 4200, NULL, 103, 60),

(108, 'Nancy', 'Greenberg', 'NGREENBE', '515.124.4569', DATE '1987-06-25', 'FI\_MGR', 12000, NULL, 101, 100),

(109, 'Daniel', 'Faviet', 'DFAVIET', '515.124.4169', DATE '1987-06-26', 'FI\_ACCOUNT', 9000, NULL, 108, 100),

(110, 'John', 'Chen', 'JCHEN', '515.124.4269', DATE '1987-06-27', 'FI\_ACCOUNT', 8200, NULL, 108, 100),

(111, 'Ismael', 'Sciarra', 'ISCIARRA', '515.124.4369', DATE '1987-06-28', 'FI\_ACCOUNT', 7700, NULL, 108, 100),

(112, 'Jose Manue', 'Urman', 'JMURMAN', '515.124.4469', DATE '1987-06-29', 'FI\_ACCOUNT', 7800,NULL, 108, 100),

(113, 'Luis', 'Popp', 'LPOPP', '515.124.4567', DATE '1987-06-30', 'FI\_ACCOUNT', 6900, NULL, 108, 100),

(114, 'Den', 'Raphaely', 'DRAPHEAL', '515.127.4561', DATE '1987-07-01', 'PU\_MAN', 11000, NULL, 100, 30),

(115, 'Alexander', 'Khoo', 'AKHOO', '515.127.4562', DATE '1987-07-02', 'PU\_CLERK', 3100, NULL, 114, 30),

(116, 'Shelli', 'Baida', 'SBAIDA', '515.127.4563', DATE '1987-07-03', 'PU\_CLERK', 2900, NULL, 114, 30),

(117, 'Sigal', 'Tobias', 'STOBIAS', '515.127.4564', DATE '1987-07-04', 'PU\_CLERK', 2800, NULL, 114, 30),

(118, 'Guy', 'Himuro', 'GHIMURO', '515.127.4565', DATE '1987-07-05', 'PU\_CLERK', 2600, NULL, 114, 30),

(119, 'Karen', 'Colmenares', 'KCOLMENA', '515.127.4566', DATE '1987-07-06', 'PU\_CLERK', 2500, NULL, 114, 30),

(120, 'Matthew', 'Weiss', 'MWEISS', '650.123.1234', DATE '1987-07-07', 'ST\_MAN', 8000, NULL, 100, 50),

(121, 'Adam', 'Fripp', 'AFRIPP', '650.123.2234', DATE '1987-07-08', 'ST\_MAN', 8200, NULL, 100, 50),

(122, 'Payam', 'Kaufling', 'PKAUFLIN', '650.123.3234', DATE '1987-07-09', 'ST\_MAN', 7900, NULL, 100, 50),

(123, 'Shanta', 'Vollman', 'SVOLLMAN', '650.123.4234', DATE '1987-07-10', 'ST\_MAN', 6500, NULL, 100, 50),

(124, 'Kevin', 'Mourgos', 'KMOURGOS', '650.123.5234', DATE '1987-07-11', 'ST\_MAN', 5800, NULL, 100, 50),

(125, 'Julia', 'Nayer', 'JNAYER', '650.124.1214', DATE '1987-07-12', 'ST\_CLERK', 3200, NULL, 120, 50),

(126, 'Irene', 'Mikkilinen', 'IMIKKILI', '650.124.1224', DATE '1987-07-13', 'ST\_CLERK', 2700, NULL, 120, 50),

(127, 'James', 'Landry', 'JLAND', '650.124.1334', DATE '1987-07-14', 'ST\_CLERK', 2400, NULL, 120, 50),

(128, 'Steven', 'Markle', 'SMARKLE', '650.124.1434', DATE '1987-07-15', 'ST\_CLERK', 2200, NULL, 120, 50),

(129, 'Laura', 'Bissot', 'LBISSOT', '650.124.5234', DATE '1987-07-16', 'ST\_CLERK', 3300, NULL, 121, 50),

(130, 'Mozhe', 'Atkinson', 'MATKINSO', '650.124.6234', DATE '1987-07-17', 'ST\_CLERK', 2800, NULL, 121, 50),

(131, 'James', 'Marlow', 'JAMRLOW', '650.124.7234', DATE '1987-07-18', 'ST\_CLERK', 2500, NULL, 121, 50),

(132, 'TJ', 'Olson', 'TJOLSON', '650.124.8234', DATE '1987-07-19', 'ST\_CLERK', 2100, NULL, 121, 50),

(133, 'Jason', 'Mallin', 'JMALLIN', '650.127.1934', DATE '1987-07-20', 'ST\_CLERK', 3300, NULL, 122, 50),

(134, 'Michael', 'Rogers', 'MROGERS', '650.127.1834', DATE '1987-07-21', 'ST\_CLERK', 2900, NULL, 122, 50),

(135, 'Ki', 'Gee', 'KGEE', '650.127.1734', DATE '1987-07-22', 'ST\_CLERK', 2400, NULL, 122, 50),

(136, 'Hazel', 'Philtanker', 'HPHILTAN', '650.127.1634', DATE '1987-07-23', 'ST\_CLERK', 2200, NULL, 122, 50),

(137, 'Renske', 'Ladwig', 'RLADWIG', '650.121.1234', DATE '1987-07-24', 'ST\_CLERK', 3600, NULL, 123, 50),

(138, 'Stephen', 'Stiles', 'SSTILES', '650.121.2034', DATE '1987-07-25', 'ST\_CLERK', 3200, NULL, 123, 50),

(139, 'John', 'Seo', 'JSEO', '650.121.2019', DATE '1987-07-26', 'ST\_CLERK', 2700, NULL, 123, 50),

(140, 'Joshua', 'Patel', 'JPATEL', '650.121.1834', DATE '1987-07-27', 'ST\_CLERK', 2500, NULL, 123, 50),

(141, 'Trenna', 'Rajs', 'TRAJS', '650.121.8009', DATE '1987-07-28','ST\_CLERK', 3500, NULL, 124, 50),

(142, 'Curtis', 'Davies', 'CDAVIES', '650.121.2994', DATE '1987-07-29', 'ST\_CLERK', 3100, NULL, 124, 50),

(143, 'Randall', 'Matos', 'RMATOS', '650.121.2874', DATE '1987-07-30', 'ST\_CLERK', 2600, NULL, 124, 50),

(144, 'Peter', 'Vargas', 'PVARGAS', '650.121.2004', DATE '1987-07-31', 'ST\_CLERK', 2500, NULL, 124, 50),

(145, 'John', 'Russell', 'JRUSSEL', '011.44.1344.', DATE '1987-08-01', 'SA\_MAN', 14000, 0.4, 100, 80),

(146, 'Karen', 'Partners', 'KPARTNER', '011.44.1344.', DATE '1987-08-02', 'SA\_MAN', 13500, 0.3, 100, 80);

SELECT a.ord\_num,a.ord\_amount,a.cust\_code,a.agent\_code

FROM orders a

WHERE a.agent\_code=(

SELECT b.agent\_code

FROM agent b WHERE b.agent\_name='Alex');

SELECT a.ord\_num,a.ord\_amount,a.cust\_code,a.agent\_code

FROM orders a

WHERE a.agent\_code='A003';

SELECT employee\_id, manager\_id, first\_name, last\_name

FROM employees a

WHERE EXISTS

(SELECT employee\_id

FROM employees b

WHERE b.manager\_id = a.employee\_id);

SELECT employee\_id, manager\_id, first\_name, last\_name

FROM employees a

WHERE NOT EXISTS

(SELECT employee\_id

FROM employees b

WHERE b.manager\_id = a.employee\_id);







