

SQL MID EXAM

TOTAL MARKS: 30

Duration : 2 HOURS

General Instructions:

1. Students are not required to create Schemas.
2. Please follow the same order as in question paper for answering questions.

1 Question x 5 Marks = 5 Marks

Question 1: Consider the following table schema: - **Hr**

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	IT	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

Employees :-

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
100	Steven	King	SKING	515.123.4567	17-06-1987	AD_PRES	24000	NULL	NULL	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	21-09-1989	AD_VP	17000	NULL	100	90
128	Steven	Markle	SMARKLE	650.124.1434	08-03-2000	ST_CLERK	2200	NULL	120	50
129	Laura	Bissot	LBISSOT	650.124.5234	20-08-1997	ST_CLERK	3300	NULL	121	50
130	Mozhe	Atkinson	MATKINSO	650.124.6234	30-10-1997	ST_CLERK	2800	NULL	121	50
131	James	Marlow	JAMRLOW	650.124.7234	16-02-1997	ST_CLERK	2500	NULL	121	50
132	TJ	Olson	TJOLSON	650.124.8234	10-04-1999	ST_CLERK	2100	NULL	121	50
135	Ki	Gee	KGEE	650.127.1734	12-12-1999	ST_CLERK	2400	NULL	122	50
136	Hazel	Philtanker	HPHILTAN	650.127.1634	06-02-2000	ST_CLERK	2200	NULL	122	50
137	Renske	Ladwig	RLADWIG	650.121.1234	14-07-1995	ST_CLERK	3600	NULL	123	50
138	Stephen	Stiles	SSTILES	650.121.2034	26-10-1997	ST_CLERK	3200	NULL	123	50
160	Louise	Doran	LDORAN	011.44.1345.629268	15-12-1997	SA_REP	7500	0.3	146	80
161	Sarath	Sewall	SSEWALL	011.44.1345.529268	03-11-1998	SA_REP	7000	0.25	146	80
	Clara	Vishney	CVISHNEY	011.44.1346.129268	11-11-1997	SA_REP	10500	0.25	147	80

169	Harrison	Bloom	HBLOOM	011.44.1343.829268	23-03-1998	SA_REP	10000	0.2	148	80
170	Tayler	Fox	TFOX	011.44.1343.729268	24-01-1998	SA_REP	9600	0.2		80
171	William	Smith	WSMITH	011.44.1343.629268	23-02-1999	SA_REP	7400	0.15	148	80
172	Elizabeth	Bates	EBATES	011.44.1343.529268	24-03-1999	SA_REP	7300	0.15	148	80
179	Charles	Johnson	CJOHNSON	011.44.1644.429262	04-01-2000	SA_REP	6200	0.1	149	80
180	Winston	Taylor	WTAYLOR	650.507.9876	24-01-1998	SH_CLERK	3200	NULL	120	50
181	Jean	Fleaur	JFLEAUR	650.507.9877	23-02-1998	SH_CLERK	3100	NULL	120	50
182	Martha	Sullivan	MSULLIVA	650.507.9878	21-06-1999	SH_CLERK	2500	NULL	120	50
201	Michael	Hartstein	MHARTSTE	515.123.5555	17-02-1996	MK_MAN	13000	NULL	100	20

Locations:-

location_id	street_address	postal_code	city	state_province	country_id
1000	1297 Via Cola di Rie	989	Roma	NULL	IT
1400	2014 Jabberwocky Rd	26192	Southlake	Texas	US
1500	2011 Interiors Blvd	99236	South San Francisco	California	US
1600	2007 Zagora St	50090	South Brunswick	New Jersey	US
1700	2004 Charade Rd	98199	Seattle	Washington	US
1800	147 Spadina Ave	M5V 2L7	Toronto	Ontario	CA
2300	198 Clementi North	540198	Singapore	NULL	SG
2400	8204 Arthur St	NULL	London	NULL	UK
2500	Magdalen Centre, The Oxford Science Park	OX9 9ZB	Oxford	Oxford	UK

1.A)	Display the first name, last name, department number, and department name for each employee.(1 Mark)
1.B)	Display the first name, last name, department number, and department name, for all employees whose department_id is 80 or 40 and arrange it in ascending order based on last name? (1 Mark)
1.C)	Display the list of employees where their name starts with "Z" & display the following: First name, last name, department, city, and state province. (1 Mark)
1.D)	List out all employees and their managers with first name including who are not working under any manager?(1 Mark)
1.E)	List out the department names with an employee salary greater than 10,000(1 Mark)

1 Question x 10 Marks = 10 Marks

Question 2: Consider the table schema: -Hospital

Physician: -

employeeid	name	position	ssn
1	John Dorian	Staff Internist	111111111
2	Elliot Reid	Attending Physician	222222222
3	Christopher Turk	Surgical Attending Physician	333333333
4	Percival Cox	Senior Attending Physician	444444444
5	Bob Kelso	Head Chief of Medicine	555555555
6	Todd Quinlan	Surgical Attending Physician	666666666
7	John Wen	Surgical Attending Physician	777777777
8	Keith Dudemeister	MD Resident	888888888
9	Molly Clock	Attending Psychiatrist	999999999

Trained_in: -

Physician	treatment	certificationdate	certificationexpires
3	1	01-01-2008	31-12-2008
3	2	01-01-2008	31-12-2008
3	5	01-01-2008	31-12-2008
3	6	01-01-2008	31-12-2008
3	7	01-01-2008	31-12-2008
6	2	01-01-2008	31-12-2008
6	5	01-01-2007	31-12-2007
6	6	01-01-2008	31-12-2008
7	1	01-01-2008	31-12-2008
7	2	01-01-2008	31-12-2008
7	3	01-01-2008	31-12-2008
7	4	01-01-2008	31-12-2008
7	5	01-01-2008	31-12-2008
7	6	01-01-2008	31-12-2008
7	7	01-01-2008	31-12-2008

Nurse: -

employeeid	name	position	registered	ssn
101	Carla Espinosa	Head Nurse	1	111111110
102	Laverne Roberts	Nurse	1	222222220
103	Paul Flowers	Nurse	NULL	333333330

Appointment: -

appointmentid	patient	prepnurse	physician	start_dt_time	end_dt_time	examinationroom
13216584	100000001	101	1	24-04-2008 10:00	24-04-2008 11:00	A

26548913	100000002	101	2	24-04-2008 10:00	24-04-2008 11:00	B
36549879	100000001	102	1	25-04-2008 10:00	25-04-2008 11:00	A,
46846589	100000004	103	4	25-04-2008 10:00	25-04-2008 11:00	B
59871321	100000004	NULL	4	26-04-2008 10:00	26-04-2008 11:00	C
69879231	100000003	103	2	26-04-2008 11:00	26-04-2008 12:00	C
76983231	100000001	NULL	3	26-04-2008 12:00	26-04-2008 13:00	C
86213939	100000004	102	9	27-04-2008 10:00	21-04-2008 11:00	A
93216548	100000002	101	2	27-04-2008 10:00	27-04-2008 11:00	B

1 Questions x 10 Marks = 10 Marks

2.A)	Display the name of the physicians who are not specialized physicians.(5 Marks)
2.B)	Find the name of the nurses and the room scheduled, where they will assist the physicians.(5 Marks)

1 Question x 15 Marks = 15 Marks

Question 3: Consider the table schema: -Hr

3.A)	List the employee_id, first name and hire date of employees who are retiring as they completed more than 20Years. (5 Marks)
3.B)	List out the employee who earns 2nd highest salary without using 'limit' function(5 Marks)
4.C)	List out in which departments more than 5 employees are working. (5 Marks)