

1. Retrieve all employees from the "employees" table.

Ans.

The screenshot shows the MySQL Workbench interface. The 'Practise' window contains the following SQL queries:

```
1 show tables;
2 # Q.1 Retrieve all employees from the "employees" table.
3 select * from employees;
4
5 # Q.2 Get the details of all employees in the "employees" table who work in the "Sales" department.
```

The 'Result Grid' displays the output of the first query, showing all employees from the 'employees' table. The table has 13 columns: employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, commission_pct, manager_id, and department_id. The data is sorted by employee_id.

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	1987-06-17	AD_PRES	24000.00	NONE		90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1989-09-21	AD_VP	17000.00	NONE	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1993-01-13	AD_VP	17000.00	NONE	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-01-03	IT_PROG	9000.00	NONE	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1991-05-01	IT_PROG	6000.00	NONE	103	60
105	David	Austin	DAUSTIN	590.423.4569	1997-06-25	IT_PROG	4800.00	NONE	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1998-02-05	IT_PROG	4800.00	NONE	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1999-02-07	IT_PROG	4200.00	NONE	103	60
108	Nancy	Greenberg	NGREENB	515.124.4569	1994-08-17	FI_MGR	12000.00	NONE	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1994-08-16	FI_ACCOUNT	9000.00	NONE	108	100
110	John	Chen	JCHEN	515.124.4269	1997-09-28	FI_ACCOUNT	8200.00	NONE	108	100
111	Ismael	Sciarra	ISCIARRA	515.124.4369	1997-09-30	FI_ACCOUNT	7700.00	NONE	108	100
112	Jose Manuel	Uman	JMURMAN	515.124.4469	1998-03-07	FI_ACCOUNT	7800.00	NONE	108	100
113	Luis	Popp	LOPP	515.124.4567	1999-12-07	FI_ACCOUNT	6900.00	NONE	108	100
114	Den	Raphaely	DRAPHEAL	515.127.4561	1994-12-07	PU_MAN	11000.00	NONE	100	30
115	Alexander	Khoo	AKHOO	515.127.4562	1995-05-18	PU_CLERK	3100.00	NONE	114	30
116	Shelli	Baida	SBAIDA	515.127.4563	1997-12-24	PU_CLERK	2900.00	NONE	114	30
117	Sigal	Tobias	STOBIAS	515.127.4564	1997-07-24	PU_CLERK	2800.00	NONE	114	30
118	Guy	Himuro	GHIHURO	515.127.4565	1998-11-15	PU_CLERK	2600.00	NONE	114	30
119	Karen	Colmenares	KCOLMENAR	515.127.4566	1999-08-10	PU_CLERK	2500.00	NONE	114	30
120	Matthew	Weiss	MWEISS	650.123.1234	1996-07-18	ST_MAN	8000.00	NONE	100	50
121	Adam	Frip	AFRIPP	650.123.2234	1997-04-10	ST_MAN	8200.00	NONE	100	50
122	Payam	Kaufling	PKAUFLIN	650.123.3234	1995-05-01	ST_MAN	7900.00	NONE	100	50
123	Shanta	Vollman	SVOLLMAN	650.123.4234	1997-10-10	ST_MAN	6500.00	NONE	100	50

2. Get the details of all employees in the "employees" table who work in the "Sales" department.

Ans.

The screenshot shows the MySQL Workbench interface. The 'Practise' window contains the following SQL queries:

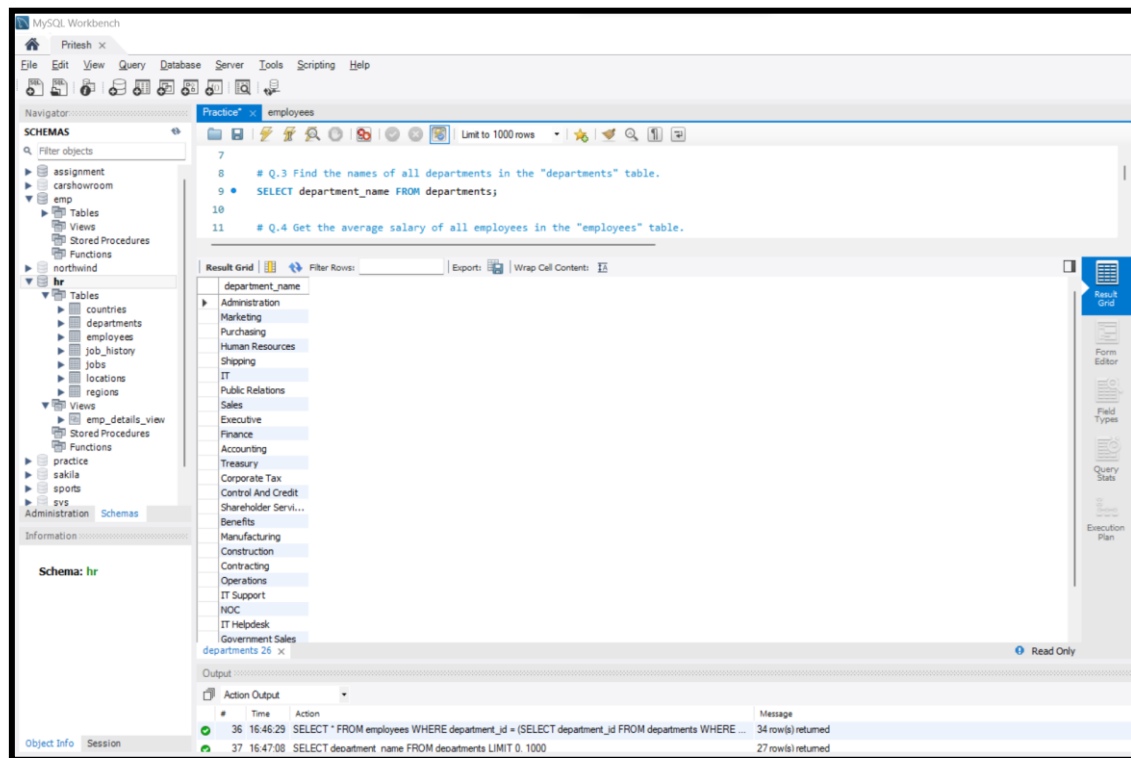
```
4
5
6 # Q.2 Get the details of all employees in the "employees" table who work in the "Sales" department.
7 SELECT * FROM employees WHERE department_id = (SELECT department_id FROM departments WHERE department_name = 'Sales');
8
9 # Q.3 Find the names of all departments in the "departments" table.
```

The 'Result Grid' displays the output of the second query, showing details of all employees in the 'Sales' department. The table has 11 columns: employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, commission_pct, manager_id, and department_id. The data is sorted by employee_id.

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
145	John	Russell	JRUSSEL	011.44.1344.429268	1996-10-01	SA_MAN	14000.00	0.40	100	80
146	Karen	Partners	KPARTNER	011.44.1344.467268	1997-01-05	SA_MAN	13500.00	0.30	100	80
147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	1997-03-10	SA_MAN	12000.00	0.30	100	80
148	Gerald	Cambraut	GCAMBRAU	011.44.1344.619268	1999-10-15	SA_MAN	11000.00	0.30	100	80
149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	2000-01-29	SA_MAN	10500.00	0.20	100	80
150	Peter	Tucker	PTUCKER	011.44.1344.129268	1997-01-30	SA_REP	10000.00	0.30	145	80
151	David	Bernsten	DBERNSTE	011.44.1344.345268	1997-03-24	SA_REP	9500.00	0.25	145	80
152	Peter	Hall	PHALL	011.44.1344.478968	1997-08-20	SA_REP	9000.00	0.25	145	80
153	Christopher	Olsen	COLSEN	011.44.1344.498718	1998-03-29	SA_REP	8000.00	0.20	145	80
154	Nanette	Cambraut	NCAMBRAU	011.44.1344.987668	1998-12-09	SA_REP	7500.00	0.20	145	80
155	Oliver	Tuvault	OTUVAULT	011.44.1344.486508	1999-11-23	SA_REP	7000.00	0.15	145	80
156	Janette	King	JKING	011.44.1345.429268	1996-01-30	SA_REP	10000.00	0.35	146	80
157	Patrick	Sully	PSULLY	011.44.1345.929268	1996-03-04	SA_REP	9500.00	0.35	146	80
158	Allan	McEwen	AMCEWEN	011.44.1345.829268	1996-08-01	SA_REP	9000.00	0.35	146	80
159	Lindsey	Smith	LSMITH	011.44.1345.729268	1997-03-10	SA_REP	8000.00	0.30	146	80
160	Louise	Doran	LDORAN	011.44.1345.629268	1997-12-15	SA_REP	7500.00	0.30	146	80
161	Sarah	Sewall	SSEWALL	011.44.1345.529268	1998-11-03	SA_REP	7000.00	0.25	146	80
162	Clara	Vishney	CVISHNEY	011.44.1346.129268	1997-11-11	SA_REP	10500.00	0.25	147	80
163	Danell	Greene	DGREENE	011.44.1346.229268	1999-03-19	SA_REP	9500.00	0.15	147	80
164	Mattea	Marvins	MMARVINS	011.44.1346.329268	2000-01-24	SA_REP	7200.00	0.10	147	80
165	David	Lee	DLEE	011.44.1346.529268	2000-02-23	SA_REP	6800.00	0.10	147	80
166	Sundar	Ande	SANDE	011.44.1346.629268	2000-03-24	SA_REP	6400.00	0.10	147	80
167	Amit	Banda	ABANDA	011.44.1346.729268	2000-04-21	SA_REP	6200.00	0.10	147	80
168	Lisa	Ozer	LOZER	011.44.1343.929268	1997-03-11	SA_REP	11500.00	0.25	148	80

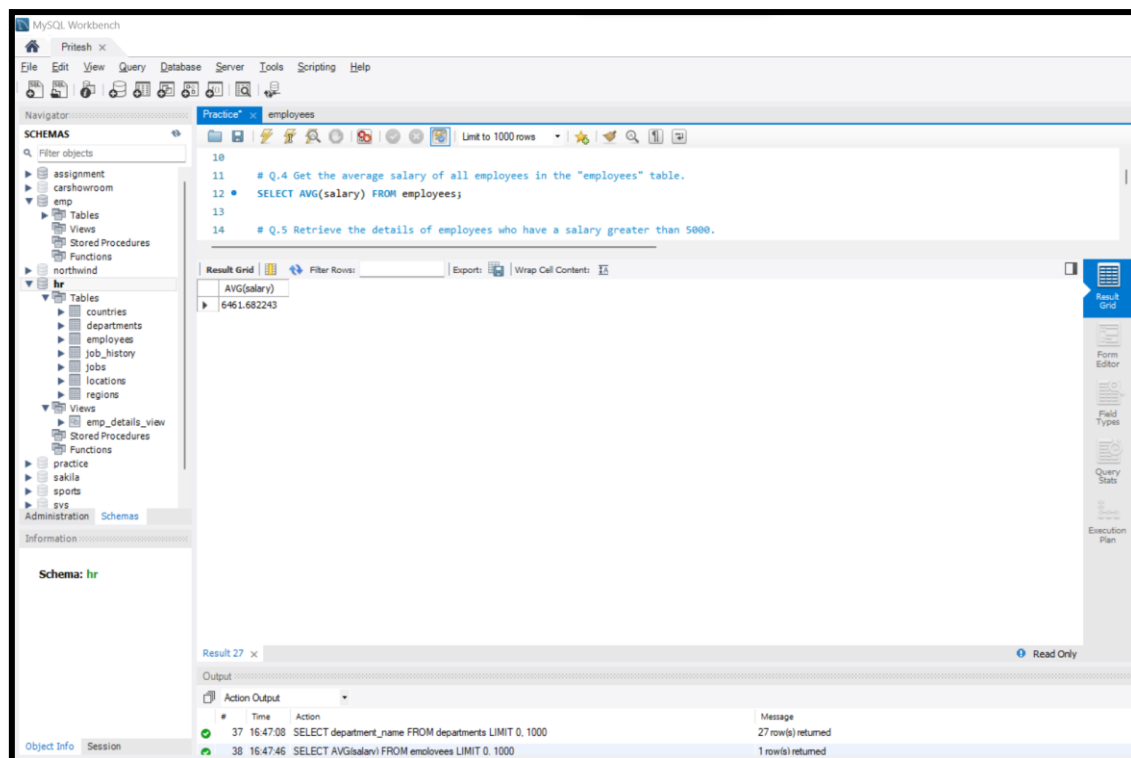
3. Find the names of all departments in the "departments" table.

Ans.



4. Get the average salary of all employees in the "employees" table.

Ans.



5. Retrieve the details of employees who have a salary greater than 5000.

Ans.

The screenshot shows the MySQL Workbench interface. The 'Schemas' pane on the left shows the 'hr' schema selected. The 'Query' tab is active, displaying the following SQL query:

```
# Q.5 Retrieve the details of employees who have a salary greater than 5000.
SELECT * FROM employees WHERE salary > 5000;
```

The 'Result Grid' shows the results of the query, displaying columns: employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, commission_pct, manager_id, and department_id. The results list 58 rows of employee data.

The 'Output' pane at the bottom shows the execution details:

#	Time	Action	Message
38	16:47:46	SELECT AVG(salary) FROM employees LIMIT 0, 1000	1 row(s) returned
39	16:48:14	SELECT * FROM employees WHERE salary > 5000 LIMIT 0, 1000	58 row(s) returned

6. Get the names and job id's of employees who work in the "Marketing" department.

Ans.

The screenshot shows the MySQL Workbench interface. The 'Schemas' pane on the left shows the 'hr' schema selected. The 'Query' tab is active, displaying the following SQL query:

```
# Q.6 Get the names and job id's of employees who work in the "Marketing" department.
SELECT first_name, last_name, job_id FROM employees
WHERE department_id = (SELECT department_id FROM departments WHERE department_name = 'Marketing');
```

The 'Result Grid' shows the results of the query, displaying columns: first_name, last_name, and job_id. The results list 2 rows of employee data:

first_name	last_name	job_id
Michael	Hartstein	MK_MAN
Pat	Fay	MK_REP

The 'Output' pane at the bottom shows the execution details:

#	Time	Action	Message
39	16:48:14	SELECT * FROM employees WHERE salary > 5000 LIMIT 0, 1000	58 row(s) returned
40	16:48:47	SELECT first_name, last_name, job_id FROM employees WHERE department_id = (SELECT department_id FROM departments WHERE department_name = 'Marketing');	2 row(s) returned

7. Find the number of employees in each department.

Ans.

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with the 'hr' schema selected. The main editor window contains the following SQL query:

```
20
21 # Q.7 Find the number of employees in each department.
22 • SELECT department_name, COUNT(*) as employee_count FROM employees
23 JOIN departments ON employees.department_id = departments.department_id GROUP BY department_name;
24
```

The 'Result Grid' tab is active, showing the following data:

first_name	last_name	job_id
Michael	Hartstein	MK_MAN
Pat	Fay	MK_REP

The bottom status bar indicates that 2 rows were returned.

8. Retrieve the details of employees who have a commission percentage greater than 0.

Ans.

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with the 'hr' schema selected. The main editor window contains the following SQL query:

```
24
25 # Q.8 Retrieve the details of employees who have a commission percentage greater than 0.
26 • SELECT * FROM employees WHERE commission_pct > 0;
27
28 # Q.9 Get the names of employees who have a manager.
```

The 'Result Grid' tab is active, showing the following data:

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
145	John	Russell	JRUSSEL	011.44.1344.429268	1996-10-01	SA_MAN	14000.00	0.40	100	80
146	Karen	Partners	KPARTNER	011.44.1344.467268	1997-01-05	SA_MAN	13500.00	0.30	100	80
147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	1997-03-10	SA_MAN	12000.00	0.30	100	80
148	Gerald	Cambrault	GCAMBRAU	011.44.1344.619268	1999-10-15	SA_MAN	11000.00	0.30	100	80
149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	2000-01-29	SA_MAN	10500.00	0.20	100	80
150	Peter	Tucker	PTUCKER	011.44.1344.129268	1997-01-30	SA_REP	10000.00	0.30	145	80
151	David	Bernstein	DBERNSTE	011.44.1344.345268	1997-03-24	SA_REP	9500.00	0.25	145	80
152	Peter	Hall	PHALL	011.44.1344.478968	1997-08-20	SA_REP	9000.00	0.25	145	80
153	Christopher	Olsen	COLSEN	011.44.1344.498718	1998-03-30	SA_REP	8000.00	0.20	145	80
154	Nanette	Cambrault	NCAMBRAU	011.44.1344.987668	1998-12-09	SA_REP	7500.00	0.20	145	80
155	Oliver	Tuvault	OTUVALT	011.44.1344.486508	1999-11-23	SA_REP	7000.00	0.15	145	80
156	Janette	King	JKING	011.44.1345.429268	1996-01-30	SA_REP	10000.00	0.35	146	80
157	Patrick	Sully	PSULLY	011.44.1345.929268	1996-03-04	SA_REP	9500.00	0.35	146	80
158	Allan	McEwen	AMCEWEN	011.44.1345.829268	1996-08-01	SA_REP	9000.00	0.35	146	80
159	Lindsey	Smith	LSMITH	011.44.1345.729268	1997-03-10	SA_REP	8000.00	0.30	146	80
160	Louise	Doran	LDORAN	011.44.1345.629268	1997-12-15	SA_REP	7500.00	0.30	146	80
161	Sarah	Sewall	SSEWALL	011.44.1345.529268	1998-11-03	SA_REP	7000.00	0.25	146	80
162	Clara	Vohney	CVSHNEY	011.44.1346.129268	1997-11-11	SA_REP	10500.00	0.25	147	80
163	Danielle	Greene	DGREENE	011.44.1346.229268	1999-03-19	SA_REP	9500.00	0.15	147	80
164	Motie	Marvin	MMARVINS	011.44.1346.329268	2000-01-24	SA_REP	7200.00	0.10	147	80
165	David	Lee	DLEE	011.44.1346.529268	2000-02-23	SA_REP	6800.00	0.10	147	80
166	Sunder	Ande	SANDE	011.44.1346.629268	2000-03-24	SA_REP	6400.00	0.10	147	80
167	Amit	Banda	ABANDA	011.44.1346.729268	2000-04-21	SA_REP	6200.00	0.10	147	80
168	Lisa	Ozer	LOZER	011.44.1343.929268	1997-03-11	SA_REP	11500.00	0.25	148	80

The bottom status bar indicates that 35 rows were returned.

9. Get the names of employees who have a manager.

Ans.

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'Schemas' tree with the 'hr' schema selected. The main editor window contains the following SQL code:

```
27  
28 # Q.9 Get the names of employees who have a manager.  
29 • SELECT first_name, last_name FROM employees WHERE manager_id IS NOT NULL;  
30  
31 # Q.10 Find the maximum salary in the "employees" table.
```

The 'Result Grid' tab is active, displaying the results of the first query. The results are as follows:

first_name	last_name
Neena	Kochhar
Lex	De Haan
Alexander	Hunold
Bruce	Ernst
David	Austin
Valli	Pataballa
Diana	Lorentz
Nancy	Greenberg
Daniel	Faviet
John	Chen
Ismael	Sclera
Jose Manuel	Urman
Luis	Popp
Den	Raphaely
Alexander	Khoo
Shelli	Baida
Sigal	Tobias
Guy	Himuro
Karen	Colmenares
Matthew	Weiss
Adam	Frippe
Payam	Kaufing
Shanta	Vollman
Kevin	Mourao

The 'Output' tab at the bottom shows the execution details for the first query, indicating that 106 rows were returned.

10. Find the maximum salary in the "employees" table.

Ans.

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'Schemas' tree with the 'hr' schema selected. The main editor window contains the following SQL code:

```
30  
31 # Q.10 Find the maximum salary in the "employees" table.  
32 • SELECT MAX(salary) FROM employees;  
33  
34 # Q.11 Retrieve the details of employees who joined the company in the year 1998.
```

The 'Result Grid' tab is active, displaying the results of the second query. The results are as follows:

MAX(salary)
24000.00

The 'Output' tab at the bottom shows the execution details for the second query, indicating that 1 row was returned.

11. Retrieve the details of employees who joined the company in the year 2005.

Ans.

The screenshot shows the MySQL Workbench interface. The 'Schemas' pane on the left shows the 'hr' schema selected. The 'Query' tab is active, displaying the following SQL query:

```
# Q.11 Retrieve the details of employees who joined the company in the year 1998.
35 • SELECT * FROM employees WHERE EXTRACT(YEAR FROM hire_date) = 1998;
36
37 # Q.12 Get the names and job id's of employees who work in the "Finance" department and have a salary greater than 10000.
```

The 'Result Grid' shows the results of the query. The columns are: employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, commission_pct, manager_id, department_id. The results are as follows:

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
106	Vall	Pataballa	VPATABAL	590.423.4560	1998-02-05	IT_PROG	4800.00	0.20	103	60
112	Jose Manuel	Uman	JMURMAN	515.124.4469	1998-03-07	FI_ACCOUNT	7800.00	0.20	108	100
118	Guy	Hemuro	GHMURLO	515.127.4565	1998-11-15	PU_CLERK	2600.00	0.20	114	30
126	Irene	Mikkilineni	IMIKKIL	650.124.1224	1998-09-28	ST_CLERK	2700.00	0.20	120	50
134	Michael	Rogers	MROGERS	650.127.1834	1998-08-26	ST_CLERK	2900.00	0.20	122	50
139	John	Seo	JSEO	650.121.2019	1998-02-12	ST_CLERK	2700.00	0.20	123	50
140	Joshua	Patel	JPADEL	650.121.1834	1998-04-06	ST_CLERK	2500.00	0.20	123	50
143	Randall	Matos	RMATOS	650.121.2874	1998-03-15	ST_CLERK	2600.00	0.20	124	50
144	Peter	Vargas	PVARGAS	650.121.2004	1998-07-09	ST_CLERK	2500.00	0.20	124	50
153	Christopher	Olsen	COLSEN	011.44.1344.498718	1998-03-30	SA_REP	8000.00	0.20	145	80
154	Nanette	Cambrault	NCAMBRAU	011.44.1344.987668	1998-12-09	SA_REP	7500.00	0.20	145	80
161	Sarah	Sewall	SSEWALL	011.44.1345.529268	1998-11-03	SA_REP	7000.00	0.25	146	80
169	Harrison	Bloom	HBLOOM	011.44.1343.829268	1998-03-23	SA_REP	10000.00	0.20	148	80
170	Taylor	Fox	TFOX	011.44.1343.729268	1998-01-24	SA_REP	9600.00	0.20	148	80
176	Jonathan	Taylor	JTAYLOR	011.44.1644.429265	1998-03-24	SA_REP	8600.00	0.20	149	80
177	Jack	Livingston	JLIVINGS	011.44.1644.429264	1998-04-23	SA_REP	8400.00	0.20	149	80
180	Winston	Taylor	WTAYLOR	650.507.9876	1998-01-24	SH_CLERK	3200.00	0.20	120	50
181	Jean	Deleaux	JDELEAU	650.507.9877	1998-02-23	SH_CLERK	3100.00	0.20	120	50
186	Julia	Deering	JDEERING	650.509.3876	1998-06-24	SH_CLERK	3400.00	0.20	121	50
190	Timothy	Gates	TGATES	650.505.3876	1998-07-11	SH_CLERK	2900.00	0.20	122	50
194	Samuel	McCain	SMCCAIN	650.501.3876	1998-07-01	SH_CLERK	3200.00	0.20	123	50
196	Alana	Walsh	AWALSH	650.507.9811	1998-04-24	SH_CLERK	3100.00	0.20	124	50
197	Kevin	Feeney	KFEENEY	650.507.9822	1998-05-23	SH_CLERK	3000.00	0.20	124	50

12. Get the names and job id's of employees who work in the "Finance" department and have a salary greater than 10000.

Ans.

The screenshot shows the MySQL Workbench interface. The 'Schemas' pane on the left shows the 'hr' schema selected. The 'Query' tab is active, displaying the following SQL query:

```
# Q.12 Get the names and job id's of employees who work in the "Finance" department and have a salary greater than 10000.
37
38 • SELECT first_name, last_name, job_id FROM employees
39 WHERE department_id = (SELECT department_id FROM departments WHERE department_name = 'Finance') AND salary > 10000;
40
```

The 'Result Grid' shows the results of the query. The columns are: first_name, last_name, job_id. The results are as follows:

first_name	last_name	job_id
Nancy	Greenberg	FI_MGR

13. Find the average salary of employees in the "Sales" department.

Ans.

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'Schemas' tree with the 'hr' schema selected. The main editor window shows a query titled 'employees' with the following SQL code:

```
40  
41 # Q.13 Find the average salary of employees in the "Sales" department.  
42 • SELECT AVG(salary) FROM employees WHERE department_id = (SELECT department_id FROM departments WHERE department_name = 'Sales');  
43  
44 # Q.14 Retrieve the details of employees who have a job id of "AD_PRES" or "FI_MGR"
```

The 'Result Grid' shows the output of the query:

AVG(salary)
8955.882353

The bottom status bar shows the execution of the query, indicating that 1 row(s) were returned.

14. Retrieve the details of employees who have a job id of "Manager" or "President."

Ans.

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'Schemas' tree with the 'hr' schema selected. The main editor window shows a query titled 'employees' with the following SQL code:

```
43  
44 # Q.14 Retrieve the details of employees who have a job id of "AD_PRES" or "FI_MGR"  
45 • SELECT * FROM employees WHERE job_id IN ('AD_PRES', 'FI_MGR');  
46  
47 # Q.15 Get the names and salaries of employees who have a salary between 3000 and 4000.
```

The 'Result Grid' shows the output of the query:

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	1987-06-17	AD_PRES	24000.00	0.00	90	90
108	Nancy	Greenberg	NGREENB	515.124.4569	1994-08-17	FI_MGR	12000.00	0.00	101	100

The bottom status bar shows the execution of the query, indicating that 2 row(s) were returned.

15. Get the names and salaries of employees who have a salary between 3000 and 4000.

Ans.

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with the 'hr' schema selected. The main editor window contains the following SQL query:

```
46
47 # Q.15 Get the names and salaries of employees who have a salary between 3000 and 4000.
48 * SELECT first_name, last_name, salary FROM employees WHERE salary BETWEEN 3000 AND 4000;
49
50 # Q.16 Find the department with the highest number of employees.
```

The 'Result Grid' shows the results of the query, displaying columns 'first_name', 'last_name', and 'salary'. The results are as follows:

first_name	last_name	salary
Alexander	Khoo	3100.00
Julia	Nayer	3200.00
Laura	Bissot	3300.00
Jason	Mallin	3300.00
Renske	Ladwig	3600.00
Stephen	Stiles	3200.00
Trenna	Rajs	3500.00
Curtis	Davies	3100.00
Winston	Taylor	3200.00
Jean	Fleaur	3100.00
Julia	Dehringer	3400.00
Anthony	Cabrio	3000.00
Kelly	Chung	3800.00
Jennifer	Dilly	3600.00
Sarah	Bel	4000.00
Britney	Everett	3900.00
Samuel	McCa	3200.00
Alana	Walsh	3100.00
Kevin	Feeney	3000.00

The bottom status bar indicates that 19 rows were returned.

16. Find the department with the highest number of employees.

Ans.

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with the 'hr' schema selected. The main editor window contains the following SQL query:

```
49
50 # Q.16 Find the department with the highest number of employees.
51 * SELECT department_name, COUNT(*) as employee_count FROM employees
52 JOIN departments ON employees.department_id = departments.department_id GROUP BY department_name ORDER BY employee_count DESC LIMIT 1;
53
```

The 'Result Grid' shows the results of the query, displaying columns 'department_name' and 'employee_count'. The results are as follows:

department_name	employee_count
Shipping	45

The bottom status bar indicates that 1 row was returned.

17. Retrieve the details of employees who have a job id that starts with the letter "S".

Ans.

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
# Q.17 Retrieve the details of employees who have a job id's that starts with the letter "S".
55 • SELECT * FROM employees WHERE job_id LIKE 'S%';
56
57 # Q.18 Get the names of employees who have a salary greater than the average salary.
```

The Result Grid displays the following data:

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
120	Matthew	Weiss	MWEISS	650.123.1234	1996-07-18	ST_MAN	8000.00	0.10	100	50
121	Adam	Fripp	AFRIPP	650.123.2234	1997-04-10	ST_MAN	8200.00	0.10	100	50
122	Payam	Kaufing	PKAUFING	650.123.3234	1995-05-01	ST_MAN	7900.00	0.10	100	50
123	Shanta	Vollman	SVOLLMAN	650.123.4234	1997-10-10	ST_MAN	6500.00	0.10	100	50
124	Kevin	Mourgos	KMOURGOS	650.123.5234	1999-11-16	ST_MAN	5800.00	0.10	100	50
125	Julia	Nayer	JNAYER	650.124.1214	1997-07-16	ST_CLERK	3200.00	0.10	120	50
126	Irene	Mikolani	IMIKOLAN	650.124.1224	1998-09-28	ST_CLERK	2700.00	0.10	120	50
127	James	Landry	JLANDRY	650.124.1394	1999-01-14	ST_CLERK	2400.00	0.10	120	50
128	Steven	Marile	SMARILE	650.124.1434	2000-03-08	ST_CLERK	2200.00	0.10	120	50
129	Laura	Bissot	LBISSOT	650.124.5234	1997-08-20	ST_CLERK	3300.00	0.10	121	50
130	Mozhe	Atkinson	MATKINSO	650.124.6234	1997-10-30	ST_CLERK	2800.00	0.10	121	50
131	James	Marlow	JAMRLOW	650.124.7234	1997-02-16	ST_CLERK	2500.00	0.10	121	50
132	TJ	Olson	TJOLSON	650.124.8234	1999-04-10	ST_CLERK	2100.00	0.10	121	50
133	Jason	Mallin	JMALLIN	650.127.1934	1996-06-14	ST_CLERK	3300.00	0.10	122	50
134	Michael	Rogers	MR ROGERS	650.127.1834	1998-08-26	ST_CLERK	2900.00	0.10	122	50
135	Ki	Gee	KGEE	650.127.1734	1999-12-12	ST_CLERK	2400.00	0.10	122	50
136	Hazel	Philtanker	HPHILTAN	650.127.1634	2000-02-06	ST_CLERK	2200.00	0.10	122	50
137	Renske	Ladwig	RLADWIG	650.121.1234	1995-07-14	ST_CLERK	3600.00	0.10	123	50
138	Stephen	Stiles	SSTILES	650.121.2034	1997-10-26	ST_CLERK	3200.00	0.10	123	50
139	John	Seo	JSEO	650.121.2019	1998-02-12	ST_CLERK	2700.00	0.10	123	50
140	Joshua	Patel	JPADEL	650.121.1834	1998-04-06	ST_CLERK	2500.00	0.10	123	50
141	Trenna	Rajs	TRAJS	650.121.8009	1995-10-17	ST_CLERK	3500.00	0.10	124	50
142	Curtis	Davies	CDAVIES	650.121.2994	1997-01-29	ST_CLERK	3100.00	0.10	124	50
143	Randall	Matos	RMATOS	650.121.2874	1998-03-15	ST_CLERK	2600.00	0.10	124	50

18. Get the names of employees who have a salary greater than the average salary.

Ans.

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
# Q.18 Get the names of employees who have a salary greater than the average salary.
58 • SELECT first_name, last_name FROM employees WHERE salary > (SELECT AVG(salary) FROM employees);
59
60 # Q.19 Find the number of employees who joined the company in each year.
```

The Result Grid displays the following data:

first_name	last_name
Steven	King
Neena	Kochhar
Lex	De Haan
Alexander	Hunold
Nancy	Greenberg
Daniel	Faviet
John	Chen
Janamel	Sciarra
Jose Manuel	Urman
Luis	Popp
Den	Raphaely
Matthew	Weiss
Adam	Fripp
Payam	Kaufing
Shanta	Vollman
John	Russell
Karen	Partners
Alberto	Errazuriz
Gerald	Cambrault
Eleni	Zlotkey
Peter	Tucker
David	Bernstein
Peter	Hall
Christopher	Olsen

19. Find the number of employees who joined the company in each year.

Ans.

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' list with 'hr' selected. The main editor window contains the following SQL query:

```
# Q.19 Find the number of employees who joined the company in each year.
SELECT EXTRACT(YEAR FROM hire_date) AS hire_year, COUNT(*) AS employee_count FROM employees
GROUP BY hire_year;
```

The 'Result Grid' shows the output of the query:

hire_year	employee_count
1987	2
1989	1
1993	1
1990	1
1991	1
1997	28
1998	23
1999	18
1994	7
1995	4
1996	10
2000	11

The bottom status bar indicates 'Result 41 x' and 'Read Only'.

20. Retrieve the details of employees who have a job id that ends with the letter "r".

Ans.

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' list with 'hr' selected. The main editor window contains the following SQL query:

```
# Q.20 Retrieve the details of employees who have a job id's that ends with the letter "r".
SELECT * FROM employees WHERE job_id LIKE "r%";
```

The 'Result Grid' shows the output of the query:

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
108	Nancy	Greenberg	NGREENBE	515.124.4569	1994-08-17	FI_MGR	12000.00	0.00	101	100
205	Shelley	Higgins	SHIGGINS	515.123.8080	1994-06-07	AC_MGR	12000.00	0.00	101	110

The bottom status bar indicates 'employees 42 x' and 'Apply Revert'.