**SOLUTIONS**

Database diagram can be found *Database Layout- Table\_Horse.pdf*

**SET 1 SQL Activities**

1.1

-

SELECT show\_name,show\_addr

FROM show1;

1.2

-

SELECT name

FROM horse

WHERE born=1990;

1.3

-

SELECT show\_name, show\_addr

FROM show1

WHERE show\_addr LIKE '%13%';

1.4

-

SELECT name, born,colour

FROM horse

WHERE gender='M'

AND colour IN ('grey','white');

1.5

-

SELECT name, died

FROM horse

WHERE died IS NOT NULL

ORDER BY died DESC;

1.6

-

SELECT DISTINCT event\_name

FROM event;

1.7

-

SELECT event\_code

FROM prize

WHERE place=1 AND

prizemoney BETWEEN 100 and 200;

1.8

-

SELECT name

FROM horse

WHERE colour='white';

1.9

-

SELECT horse\_id,name

FROM horse

WHERE died IS NULL

and born<1990

ORDER BY horse\_id;

1.10

-

SELECT name, born

FROM horse

WHERE died IS NOT NULL

and born IN (1976, 1978, 1980, 1981);

**SET 2 SQL Activities**

2.1

-

SELECT e.event\_id, e.event\_name, j.name

FROM event e, judge j

WHERE e.judge\_id=j.judge\_id;

2.2

-

SELECT DISTINCT h.name

FROM horse h, entry e

where h.horse\_id=e.horse\_id

and e.place=1;

2.3

-

SELECT h.name, ev.event\_name, en.place

FROM horse h, entry en, event ev

where h.horse\_id=en.horse\_id

and en.event\_id=ev.event\_id;

2.4

-

SELECT e.event\_name, s.show\_name, s.show\_addr, j.name, j.address

FROM event e, judge j, show1 s

where e.show\_id=s.show\_id

and e.judge\_id=j.judge\_id;

2.5

-

SELECT s.show\_held, j.name, e.event\_name

FROM event e, judge j, show1 s

where e.show\_id=s.show\_id

and e.judge\_id=j.judge\_id

and s.show\_name='Dubbo';

2.6

-

SELECT ev.event\_name, p.prizemoney

FROM event ev,entry en, prize p

where ev.event\_id=en.event\_id

and en.event\_id=p.event\_code

and p.place=1;

2.7

-

SELECT e.event\_id, e.horse\_id, p.place,p.prizemoney

FROM entry e, prize p

WHERE e.event\_id=p.event\_code

ORDER BY e.event\_id, e.horse\_id;

2.8

-

SELECT s.show\_name,ev.event\_name,p.prizemoney

FROM prize p, entry en,event ev,show1 s

WHERE p.event\_code=en.event\_id

AND en.event\_id=ev.event\_id

AND ev.show\_id=s.show\_id

AND p.place=1;

2.9

-

SELECT h.name,s.show\_name,ev.event\_name, en.place

FROM horse h,entry en,event ev,show1 s, judge j

WHERE h.horse\_id=en.horse\_id

AND en.event\_id=ev.event\_id

AND ev.show\_id=s.show\_id

AND ev.judge\_id=j.judge\_id

AND j.name='Green';

2.10

-

SELECT h.name,ev.event\_name

FROM horse h,entry en,event ev, judge j

WHERE h.horse\_id=en.horse\_id

AND en.event\_id=ev.event\_id

AND ev.judge\_id=j.judge\_id

AND (h.name='Star' OR h.name='Flash')

AND (j.name='Smith' AND j.address='Melbourne');

**SET 3 SQL Activities**

3.1

-

SELECT ev.event\_name,COUNT(\*)

FROM event ev, entry en

WHERE ev.event\_id=en.event\_id

GROUP BY ev.event\_name;

3.2

-

SELECT show\_name,COUNT(\*)

FROM show1

GROUP BY show\_name

ORDER BY COUNT(\*) DESC;

3.3

-

SELECT name, COUNT(\*)

FROM judge

GROUP BY name;

3.4

-

SELECT s.show\_name,s.show\_held,COUNT(\*)

FROM event e, show1 s

WHERE e.show\_id=s.show\_id

GROUP BY s.show\_name,s.show\_held;

3.5

-

SELECT h.name,h.horse\_id, SUM(p.prizemoney)

FROM horse h, entry e,prize p

WHERE h.horse\_id=e.horse\_id

AND e.event\_id=p.event\_code

GROUP BY h.name,h.horse\_id;

3.6

-

SELECT h.name,h.horse\_id, SUM(p.prizemoney)

FROM horse h, entry e,prize p

WHERE h.horse\_id=e.horse\_id

AND e.event\_id=p.event\_code

GROUP BY h.name,h.horse\_id

HAVING SUM(p.prizemoney)>=110;

3.7

-

S SELECT p.place, COUNT(\*) Number,SUM(p.prizemoney) Total, MAX(p.prizemoney) Maximum, MIN(p.prizemoney) Minimum, AVG(p.prizemoney) Average

FROM entry e,prize p

WHERE e.event\_id=p.event\_code

AND p.place IN (1,2)

GROUP BY p.place;

3.8

-

SELECT h.horse\_id, h.name

FROM horse h, entry e

WHERE h.horse\_id=e.horse\_id

AND e.place IN (1,2)

GROUP BY h.horse\_id,h.name

HAVING COUNT(\*)>1;

3.9

-

SELECT h.name, COUNT(\*)

FROM horse h, entry en, event ev, judge j

WHERE h.horse\_id=en.horse\_id

AND en.event\_id=ev.event\_id

AND ev.judge\_id=j.judge\_id

AND j.name='Smith'

AND j.address='Melbourne'

GROUP BY h.horse\_id,h.name;